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FOCUS: Metals

Hurricane damaged cars flood the market



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Carpet recycling increases much needed landfill space

by MAURA KELLER

mkeller@americanrecycler.com

Within the construction and demolition industry, carpet recycling remains top of mind for industry players. As such, states such as California, and organizations such as the Carpet American Recovery Effort (CARE), are leading the charge in establishing carpet recycling programs that will lessen the affect carpeting discards have on the environment.

According to the most recent annual report from CARE, the organization's members diverted more than 488 million pounds of carpet from U.S. landfills in 2016, down nearly 6 percent from 2015. Of the carpet diverted to recycling, 167 million pounds were recycled into carpet and other consumer products, 174 million pounds were sent back to the landfill, and 144 million pounds were sent to waste-to-energy and cement kilns.

As CARE's executive director, Dr. Robert Peoples, explained, "Data shows the carpet recycling industry is under mounting stress. Until oil returns to greater than \$70 per barrel, we see con-CARE is a voluntary, non-profit organization dedicated to increasing the landfill diversion, reuse and recycling of waste carpet, through market-based solutions that benefit the economy as well as the environment.

According to Peoples, "72 percent of recycled post-consumer carpet is manufactured into plastics. This category has grown over the past few years. The amount of material recycled in carpet fiber dropped 10 percentage points, from 13 percent to 3 percent. Carpet backing remained constant at 8 percent of end products manufactured and 11 percent of recycled post-consumer carpet pounds that were recycled went into new carpet. This is considered a true cradle-to-cradle process."

Challenges in Carpet Recycling

Carpet removed in construction and demolition projects cause a myriad of



California is the first state to establish a private sector designed and managed statewide carpet stewardship program.

PHOTO BY AOLDMAN | DREAMSTIME

problems, including the cost and accessibility of carpet recycling programs. The difficulty of recycling carpeting is because a carpet is comprised of an assembly of parts – the face fiber and backing system – each of which plays a role in the performance of the carpet.

The face fibers are considered to be the most valuable part of the carpet for recycling. However, identifying and separating the type of face fibers is a tedious process, considering each face fiber has different properties, so they must be separated. What's more, the backing systems most often include latex and polyvinylchloride (PVC) backing systems, both of which require different procedures in properly recycling these carpet components.

Programs and Processes In Place

In recent months, California's carpet stewardship program has gained national attention. Here's why: California is the first state to establish a private-sector designed and managed statewide carpet stewardship program. This program follows producer responsibility principles to ensure that dis-

carded carpets are recycled and become a resource for new products in a manner that is sustainably funded.

In October, California Governor Jerry Brown signed carpet recycling legislation that will help California reach its target of emitting 40 percent fewer greenhouse emissions by 2030. The bill, AB 1158, builds on and enhances the state's current carpet recycling program mandates that carpet stewards achieve a 24 percent recycling rate and discouraging the use of incineration.

In a statement, Assembly member Kansen Chu said, "I applaud Governor Jerry Brown for signing my bill into law. AB 1158 is the result of great collaboration between diverse stakeholders, including policy and environmental groups, labor, manufacturers, local government and recyclers. Keeping carpet out of landfills and incinerators benefits Californians and our environment. AB 1158 is a reasonable approach to improving the existing program and will protect consumers that are paying to fund carpet recycling."

See CARPET WASTE, Page 4

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Manager, Pacific Steel & Recycling
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PA DEP opens application process for Governor's environmental awards

The Wolf Administration is inviting all Pennsylvanians who've recently worked on successful environmental projects to apply for the state's top environmental recognition: The 2018 Governor's Awards for Environmental Excellence, honoring individuals and organizations whose dedicated efforts have improved air, land, and water quality in Pennsylvania.

"The commonwealth would be a different place if not for the great work of many Pennsylvanians who tackle the full range of environmental challenges, from local creek cleanups to citywide sustainability," said Department of Environmental Protection (DEP) secretary Patrick McDonnell. "It's a pleasure to shine a light on their work with the Governor's Awards for Environmental Excellence."

DEP oversees the application and award selection process. Projects are evaluated on the basis of seven criteria: degree of environmental protection, climate change, sustainability, partnership, economic impact, innovation, and environmental education and outreach. A project doesn't have to meet all criteria to merit an award.

The award is open to all individuals, whether a project leader or participant, and to all schools, nonprofit organizations, businesses, farms, and government agencies. Past winners may submit applications for new projects, but projects that have previously received a Governor's Award for Environmental Excellence are not eligible.

Applications are now being accepted online. The deadline for submission is January 8, 2018, at 5 p.m. Eligible projects must have been completed before November 1, 2017. Submission guidelines may be found at the application page.

Last year, 21 organizations received awards. Their projects collectively saved 8 million kWh/year; reduced annual greenhouse gas emissions by 14,608 metric tons; captured 3.2 million gallons of stormwater runoff; saved over \$105 million in operation, maintenance, and energy use expenses; conserved 3 million gallons of water; engaged 8,500 students in environmental issues; recycled 68,000 plastic bags; properly disposed of 5,287 tires; and treated 450.5 million gallons of stream water that had been laced with acid mine drainage.

National Manufacturing Day puts key role of recycling in U.S. economy on display

Scrap recycling is the first link in the manufacturing supply chain. The Institute of Scrap Recycling Industries (ISRI) joined in the celebration of National Manufacturing Day by highlighting the many positive contributions of the recycling industry to the U.S. manufacturing landscape. In 2016 alone, more than 130 million metric tons of metal, paper, plastic, glass, textiles, rubber, and electronics were manufactured in specification grade commodities by the U.S. scrap recycling industry.

"National Manufacturing Day helps call attention to the critical role recyclers play in America's overall economy, and the variety of ways recycling affects one's everyday life," said Robin Wiener, president of ISRI. "The recycling industry is proud to be the first link in the manufacturing supply chain, as it provides a source of raw material to other manufacturers that is environmentally friendly compared to virgin material. In doing so, the industry has become a thriving economic engine, job creator, resource of sustainability, energy savings, and global trade."

The use of scrap dates back to the beginning of human existence itself.

Since the dawn of civilization and the earliest attempts at manufacturing, humans have recognized the intrinsic value of scrap and the benefits associated with using and re-using existing products to create new goods. As U.S. manufacturing ramped up and became more complex in response to society's expanding needs, scrap recycling took on even greater importance, adapting not only to market drivers, but also shifting national priorities in the context of our finite natural resources.

The contributions of the scrap recycling industry to the U.S. economy include:

- Generating nearly \$16.5 billion in export sales to 155 countries;
- Directly and indirectly employing approximately 534,000 workers in 2016;
- Generating nearly \$117 billion annually in economic activity;
- Drawing in \$13.2 billion in revenue for federal, state, and local governments; and
- Lowering energy costs by producing recycled materials that require less energy during the manufacturing process than virgin materials.

I have never understood why women love cats. Cats are independent, they don't listen, they don't come when you call, they like to stay out all night and when they're home they like to be left alone and sleep. In other words, every quality that women hate in a man, they love in a cat.

National association awards best in recycling

The National Waste & Recycling Association (NWRA) recognized innovators and leaders in its industry at the annual Executive Leadership Round Table. Six awards were given to companies that have made substantial contributions to the American recycling through partnerships, public education, innovations in recycling equipment, and innovations in recycling facilities. Winners were selected by a panel of judges who are professionals in the industry as well as from other technology and educational organizations.

The Sustainability Partnership Game Changer Award and the Construction and Demolition Debris Recycler of the Year Award went to SCS Engineers and the Dane County Solid Waste Division for its Rodefild Landfill Construction and Demolition (C&D) Recycling Facility. Dane County brought in SCS Engineers to assist with the design and engineering of its facility. The entire processing line is housed inside the structure to minimize wind-blown debris as well as dust.

The Best Recycling Public Education Program Award was shared by the City of North Point's Solid Waste Division for its outreach strategy and Recology San Francisco for its Educational Tour and Artist in Residence Program. The City of North Point launched its social media accounts in May 2015 and since then has used them, along with public events and direct marketing efforts, to keep residents informed of services offered by the Solid Waste

Department, specifically the implementation of a new curbside recycling program.

Recology's Artist in Residence Program provides artists the opportunity to take what others have thrown away and repurpose it into a variety of artistic mediums.

The Innovator of the Year Award went to AMP Robotics. AMP was honored for its artificial intelligence (AI) and robotic sorting system that is already in multiple Material Recovery Facilities. There is little to no retrofit costs and the robot can be installed within a weekend.

The Recycling Facility of the Year Award went to FCC Environmental Services and the City of Dallas. This award recognizes the facility that demonstrates leadership in key measurements, such as innovation, quantity of materials collected and/or processed, types of materials recovered, site improvements, or sustainability measures adopted. The facility began operating on January 1, 2017. In its first year of operation, the MRF will process around 80,000 tons in 2017 with a total capacity of 140,000 tons per year.

The Organics Recycler of the Year Award went to the City of Cedar Grove, in Washington State and Republic Service and the Alabama Coastal Foundation for their work together in the Oyster Shell Recycling Program. Cedar Grove was honored for the critical role it plays in Puget Sound's recycling infrastructure and sustainability efforts.



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New video technology gives an inside look at Kent County's recycling program

The Kent County Department of Public Works, Michigan, has set a goal to reduce landfill waste by 90 percent by 2030, and is working towards that goal through the Kent County Recycling and Education Center's education programs. Custer Inc. recently installed new video technology at the Kent County Recycling & Education Center that gives employees, volunteers, community members and school groups an in-depth look at the county's recycling program and how materials are sorted every day.

"The Kent County Recycling and Education Center plays a vital role in supporting the sustainability of our community by making recycling more accessible to residents and educating the community on how to reduce waste," said Mike Christe, technology sales at Custer. "We wanted to introduce audio/visual upgrades to help community members get an up-close look at the recycling process while ensuring safety."

Cameras are installed throughout the Kent County Recycling & Education Center to demonstrate different aspects of the recycling process for staff, volunteers and community members. Kent County Department of Public

Works engaged Custer to replace outdated analog equipment and to further improve the facility's technology. Custer implemented new digital technology including two displays, projection screen, control panel, four HD cameras and an iPad Mini 4 to control all audio/visual equipment. The new technology makes it easy for staff to show recycled materials coming into the facility, and can pan out and zoom in on the conveyor belt to see what employees are picking out. The goal of the new technology is to give visitors an up-close, real-time view of the recycling process.

"We welcome thousands of people into our facility every year, so it's important to have technology that can help us educate our visitors and show them the recycling process," said Kristen Wieland, communications and marketing manager at the Kent County Department of Public Works.

"I recently toured the Kent County Recycling and Education Center and was impressed by the video tour and how it helps people understand the enormity of what can be recycled," said Harvey Gershman, a solid waste management consultant at Gershman, Brickner & Bratton Inc., part of the team

creating a master plan for a new sustainable business park in Kent County. "A big part of successful community recycling programs is making sure residents know how to recycle and that it's accessible. Custer's innovative video system allows people to see what goes into recycling and reinforce the importance of separating the many recyclable materials properly."

The Kent County Department of Public Works is creating a master plan for a new sustainable business park in Kent County that would use recycled materials and reclaim and convert waste materials. Kent County's Recycling & Education Center is the primary materials recovery facility for residential recyclables generated in homes throughout West Michigan. The center's processing system effectively sorts recyclables from curbside bins and drop-off recycling centers and prepares materials to be sold to processors.

Kent County Recycling and Education Center tours are about an hour long and include a classroom discussion about recycling and a view of recycling equipment in action from the observation deck.

America. "More than four billion pounds of disposed carpeting ends up in landfills every year. That's about two percent of all municipal solid waste every year, according to EPA estimates."

According to DSM North America, the big problem is that traditional carpeting is extremely difficult to recycle because it is made of several different materials that must be taken apart before processing. The easiest way is to shave carpet fiber of the facing of the carpet – which is where most of the current small amount of recycling comes from – but the bulk of recycling carpet means separate layers of materials bound together by high-temperature cured latex, which is both time consuming and expensive.

"Environmental issues like landfill waste and water contamination are becoming real problems in the U.S. We have a corporate responsibility to work on solutions that will allow all of us to live safely without the fear of poisoning ourselves," Petrovick said. "So we started redesigning a product from the ground up to make it fully recyclable. We were surprised with some additional performance benefits, that later proved to be crucial to make it work in the market place."

DSM, along with tech start-up Niaga reimagined the way carpet is created, and developed a mono-material system in which the polyester carpet fibers are bound together with the polyester padding using a polyester adhesive. This way, the carpet can be recycled in full into new fibers for carpet, using well-known polyester recycling technologies.

Niaga is talking with other carpet makers to license its technology. That's important because the philosophy of the

partnership between DSM and Niaga is rooted in both company's sustainability missions. DSM corporate efforts include work on renewable energy, lowering greenhouse gas emissions, increasing energy efficiency and tying executive compensation to sustainability targets. Meanwhile, Niaga was conceived around the idea of redesigning and reengineering everyday products to reduce waste.

"Our strategy is to make sure the technology is available to everyone in the carpet industry," said Lukas Hoex, marketing manager at DSM-Niaga. "We want this to have a big impact on the industry because we believe recyclable carpet has huge benefits for the consumer, retailer, recyclers, and the environment, as well as municipalities and governments dealing with waste issues."

Events Calendar

December 5th-7th

Power-Gen. Las Vegas Convention Center, Las Vegas, Nevada.
888-299-8016 • www.power-gen.com

January 22nd-25th

COMPOST 2018 Conference & Tradeshow. Westin Peachtree Plaza Hotel, Atlanta, Georgia.
301-897-2715 • www.compostingcouncil.org

February 11th-13th

C&D World Exhibition & Conference. Downtown Hilton, Nashville, Tennessee.
866-758-4721 • www.cdrecycling.org

February 19th-21st

Association of Plastic Recyclers Membership Meeting. Gaylord Opryland Resort & Convention Center, Nashville, Tennessee.
202-316-3046 • www.plasticsrecycling.org

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Carpet waste

■Continued from Page 1

"I thank Governor Brown for signing this important piece of legislation," said Heidi Sanborn, executive director of the National Stewardship Action Council, in a statement. "It's imperative that we increase the proper recycling of carpet as these materials are now one of the largest greenhouse emitters of any land-filled product. Nationally, approximately 4.7 billion pounds of carpet end up in landfills each year. Most of the materials are plastic made from oil and have a large GHG footprint. By signing AB 1158 into law, we are not only protecting consumers by ensuring the recycling fee is used for recycling, but will be protecting the environment while creating jobs."

Like California, South Carolina is also increasing their pressure of improving carpet recycling in the state. As such, the South Carolina Carpet Recovery Coalition, was established to increase the recovery of post-consumer carpet and carpet padding. A cooperative effort between the South Carolina Department of Commerce, the South Carolina Department of Health and Environmental Control, businesses, local governments, and universities, the organization's goal is to maximize the economic and environmental benefits of carpet recycling.

Carpet manufacturers are also taking a significant role in increasing the recyclability in carpeting.

"While it's common knowledge that diapers are a dilemma for U.S. landfills, most people don't know that a close second is old carpeting," said Bruce Petrovick, account manager at DSM North

A year's recycling haul in Texas: Valued at \$702 million

Recyclers in Texas collected 9.2 million tons of municipal solid waste in 2015, a haul worth an estimated \$702 million, according to a comprehensive study of municipal solid waste recycling conducted for the Texas Commission on Environmental Quality (TCEQ).

TCEQ recently released its Study on the Economic Impacts of Recycling, a 118 page document completed this summer by Burns & McDonnell. The study examined current recycling methods, marketing campaigns, ongoing programs and other efforts statewide, compiling information about job creation and potential economic opportunities.

The study includes detailed recycling data collected from municipalities, private operators and others who divert paper, plastics, metal, glass, organics, construction debris and other materials.

Among economic benefits gener-

ated for the state by municipal solid waste recycling in 2015, according to the study:

- More than 17,000 person years of direct, indirect and induced employment.

- An overall impact on the Texas economy exceeding \$3.3 billion.

Texas Rep. Ed Thompson, R-Pearland, reports being pleased with the results. He wrote the bill that became law in 2015, ordering the study.

"I'm pleased with the results of this study showing the economic importance of recycling," Thompson tells TCEQ. "The study shows that not only is recycling beneficial for the environment by saving space in landfills, but it also plays a positive role in the Texas economy. I'm proud that this study is able to bring more attention to these issues and educate people on the constructive impacts of recycling."

Thermostat Recycling Corporation teams up to recycle mercury thermostats in Massachusetts

Thermostat Recycling Corporation (TRC) has partnered with New Hampshire based Wheelabrator Technologies to assist in the collection of mercury containing thermostats in Massachusetts. This collection program is part of the Mass Save energy efficiency installation and weatherization program, funded by a coalition of utility companies.

Under this agreement, TRC will provide free recycling containers for consolidating mercury thermostats that have been replaced in homes and businesses under the Mass Save energy efficiency program. Wheelabrator will

facilitate the shipping of these devices from participating trade partners or local utilities. Lastly, TRC will process, count, and dispose of the thermostats collected. Reporting will be made available to any interested stakeholders including utility companies, participating trade allies, and the Massachusetts Department of Environmental Protection.

The Mass Save energy efficiency program has the potential to extract substantial mercury thermostats for recycling, allowing Massachusetts to capture one of the last reservoirs of mercury still in service.

AEM names officers and directors

The Association of Equipment Manufacturers (AEM) disclosed its 2018 officers as well as directors elected to the AEM board of directors and AG and CE Sector Boards at its recent annual business meeting.

2018 AEM officers are:

- Chair Richard M. Goldsbury, regional president, North America & Oceania, Doosan Bobcat Inc.

- Vice chair Jim Walker, vice president Case IH N.A., CNH Industrial

- AG chair John D. Lagemann, Sr. vice president sales & marketing—Regions 3 & 4, Deere & Co.

- CE chair Jeffrey R. Reed, president & chief executive officer, Reed International/VSS Macropaver

- Treasurer Todd H. Stucke, Sr. vice president sales, marketing & product support, Kubota Tractor Corp.

- Secretary Dennis J. Slater, president, AEM's full-time president

Directors elected to the AEM board of directors:

- Robert B. Charter, group president, Caterpillar Inc.

- Grant D. Godbersen, vice president manufacturing, GOMACO Corp.

- Michael A. Haberman, president, Gradall Industries, Inc.

- Jerry Johnson, president Farm, Ranch & Agriculture Div., Blount International, Inc.

- David L. Koppenhofer, executive director, OEM sales & support, Cummins Inc.

- Leif J. Magnusson, president, CLAAS Global Sales Americas, Inc.

- Richard A. Patek, group president Astec Aggregate & Mining Group, Astec Industries, Inc.

- Austin Ramirez, president & chief executive officer, HUSCO International

- Jeffrey R. Reed, president & chief executive officer, Reed International/VSS Macropaver

- Todd H. Stucke, Sr. vice president sales, marketing & product support, Kubota Tractor Corp.

Environmental Sustainability Leadership Awards available

Earlier this year the Northeast Recycling Council (NERC) inaugurated a new recognition program – the Environmental Sustainability Leadership Awards.

Award winners were announced at NERC's 30th Anniversary Celebration in Amherst, Massachusetts. NERC is honored to recognize the award recipients for their work consistent with the NERC's mission to promote sustainable materials management by supporting traditional and innovative solid waste best practices, focusing on waste prevention, toxics reduction, reuse, recycling and organics recovery.

The Involvement in NERC Award recognizes a person who has made a substantial contribution to furthering NERC's mission. George MacDonald of the Maine Department of Environmental Protection was the recipient.

MacDonald was one of the longest serving NERC board members – 22 years. According to NERC vice president, Rick Watson of the Delaware Solid Waste Authority, "during his tenure, George demonstrated a true commitment to the organization. He was an inspiration to NERC staff and many others around the region, not only for his dedication to NERC, but also as a leader in advancing materials management."

In the category of NERC Environmental Sustainability Leadership, NERC recognized three award winners. Each achieved significant environmental results through waste diversion

efforts in the Northeast.

In the private sector, Cox Enterprises was recognized for its national Zero Waste to Landfill program. "Cox locations in the NERC member states have implemented comprehensive waste diversion programs, led public engagement campaigns, and participated actively in environmental cleanups. The result is that their facilities have achieved an average 50 percent waste diversion rate," noted Kaley Laleker, Maryland Department of the Environment and NERC vice president.

In the category of young professional, Alex Williams of Blue Earth Compost was the winner. Isner explained that "Blue Earth is a food scrap collection company based in Hartford, Connecticut. Williams and his family have grown this business from a small collection program of 20 homes to close to 150 homes and 35 businesses. Alex has done every job in the business from accounting to food scrap collection, and with the growth of the business has been able to create 3 jobs for his community."

In the public sector category, Molly Ettenborough, recycling & sustainability manager for Newburyport, Massachusetts, was the award recipient. Ettenborough was recognized for her leadership on zero waste initiatives, the Newburyport Organics Pilot, and the Recycle IQ program. She has also contributed to LED street light deployment and solar energy projects.

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Covanta Environmental Solutions opens materials processing facility in Milwaukee

Covanta Environmental Solutions, a provider of environmental services across a wide range of industries, has opened a new materials processing facility to serve customers with the latest in sustainable materials management and environmental services.

The new facility, spanning across 13 acres of formerly vacant industrial property allows Covanta Environmental Solutions to expand and grow its services in Milwaukee and throughout the

Midwest, after 20 years of success at a former site in the city. The facility provides services including liquid and solid waste recycling and treatment, product de-packaging, tanker, railcar and industrial facility cleaning, and houses a fleet of vehicles that provide on-site cleanups, remediation and transportation services.

The new material processing facility is double the capacity of the company's former site and is capable of

treating more than 60 million gallons of liquid waste annually to return clean, reusable water to local supplies. The facility also houses Covanta Environmental Solutions' innovative UnWrapp technology ("Using New Ways to Recycle All Packaged Products"), that efficiently and securely de-packages and recycles consumer products that have been recalled, expired, or discarded as a result of being damaged or off-spec.

EPA awards Clinton County Substance Abuse Council for medication disposal project

The U.S. Environmental Protection Agency (EPA) Region 7 has awarded \$30,000 to the Clinton Substance Abuse Council to raise awareness of the environmental and public health effects of improper medication storage and disposal in Clinton County, Iowa.

The funding to the Clinton Substance Abuse Council comes from EPA's Environmental Justice Small Grants (EJSG) Program, which provides critical support to organizations that otherwise lack the funding and resources to address the environmental challenges in their community. The program is designed to help communities understand and address their expo-

sure to multiple environmental harms and risks. Understanding the impacts of multiple environmental risks can help communities develop more effective solutions to their environmental and health concerns. The long-term goals of the EJSG Program are to help build the capacity of the affected community and create self-sustaining, community-based partnerships that will continue to improve local environments in the future.

In Clinton County, unused prescription medication is often flushed down the toilet, contaminating local water sources. The "Clinton County Safe Medication Disposal Project"

seeks to raise awareness of the environmental and public health effects of improper medication storage and disposal in Clinton County. Contaminants from pharmaceuticals can survive wastewater treatment and end up in surface water. Project partners aim to reduce local water pollution through public education activities and build consensus to prioritize proper medication storage/disposal in Clinton County. Residents will engage in practices that promote proper medication disposal, resulting in the reduction of waste and contaminants in the water system. Trainings will target up to 500 community residents.

NWRA Women's Council elects new leadership

The National Waste and Recycling Association's Women's Council elected its board for 2018.

The officers and board members for 2018 are:

- President: Carmen Smothers, Environmental Solutions Group
- Vice president – Marsha Lacy, Republic Services
- Secretary – Cheryl Waite, Perkins
- Treasurer – Dianna Cervantes, WCA
- Fundraising – Faith Zydowsky, Sierra Container
- Membership/marketing – Sarah Bryant, Petersen Industries
- Professional Development – co chair – Kathy Trent, Waste Management,
- Co-chair – Katie Evans, Best Way Disposal
- Scholarship – Kate Kanabay, Horwood, Marcus, Berk
- Past president – Tammy Holtzman, Waste Connections

The Women's Council fosters the professional development of women in the waste industry.

The Women's Council will award four scholarships at \$7,500 each at WasteExpo in April 2018. The scholarship is funded with monies raised from Split the Pot and decorated carts, which will be on display again as WasteExpo celebrates 50 years.

I asked my wife what she wanted for Christmas. She told me, "Nothing would make me happier than a diamond necklace." So I bought her nothing.



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Keep America Beautiful recognizes Delta Air Lines with 2017 Vision for America award

Delta Air Lines president Glen Hauenstein accepted Keep America Beautiful's 2017 Vision for America Award at the community improvement nonprofit organization's annual award celebration. Keep America Beautiful presents the Vision for America Award annually to a corporation whose commitment to corporate social responsibility and sustainability has significantly enhanced civic, environmental and social stewardship.

"Keep America Beautiful sees in Delta a shared belief that when individuals, corporations, governments and nonprofits work together, we can fulfill a vision of a country – and a world – in which every community can be environmentally healthy, socially connected and economically sound," said Helen Lowman, president and CEO, Keep America Beautiful. "Delta's innovation across its business and conservation for its fleet of airplanes signals a commitment to making sustainability a core component of its business operations."

Delta's Vision for America and for the world is to support the communities where its employees live and serve by giving back one percent of Delta's net income from the previous year to key charitable organizations through cash

contributions, in-kind travel and grants from The Delta Air Lines Foundation.

Other accomplishments include:

- Committing to replace 20 percent of its mainline narrow body fleet over the next five years with fuel efficient and comfortable A321s, Bombardier CS100s and Boeing 737-900ERs.

- Saving an incremental 9 million gallons of fuel in 2016 through measures as simple as reducing onboard weight, and lowering shades and opening vents in the cabin when landing at warm destinations.

- Offsetting more than 3,200 metric tons of carbon emissions through its industry-leading carbon offset program that offers customers ways to lighten their own carbon footprint when flying.

- Committing to a journey to bolster its safety culture and significantly improve its industry-leading employee injury rate.

According to the airline's 2016 Corporate Responsibility Report, Delta for the third year in a row continued to track positively against the key performance indicators used to measure improvement in areas like cyber security, customer service, supplier diversity, employee satisfaction and climate change.

NERC receives U.S. Department of Agriculture funding for organics work

The Northeast Recycling Council (NERC) has been awarded \$65,638 from the U.S. Department of Agriculture, Rural Utility Services Solid Waste Management Grant Program, to implement food waste, organics, and manure management in rural Maryland communities.

The goal of the project is to assist rural communities to improve solid waste planning and management, leading to reductions in solid waste generation and water pollution. Stakeholders in the Maryland counties of Allegany and Cecil will be engaged to implement best management practices for food waste reduction, organics, and manure management. Through webinars and outreach, the project will benefit other regions of Maryland, as well as the Northeast and the country.

The project will engage citizens, students, business and non-profit representatives, town staff/transfer station employees, civic leaders and others in education, training, and outreach. The technical assistance and trainings offered by the project will incorporate a number of innovative techniques, such as citizen scientist recruitment and training. The project will further support rural economies by identifying ways to

reduce and manage food waste cost-effectively within the community. Exploring opportunities for stimulating local economies, through the use and marketing of compost products, will also be addressed.

NERC will work with the participant counties, the Maryland Department of the Environment, and other project partners, to:

- Develop best management practices and resources for planning, implementing, and promoting food waste reduction, organics, and/or manure management;
- Provide project-centered regional training sessions for a wide range of stakeholders;
- Deliver on-site technical assistance to participant communities with the goal of implementing sustainable projects in at least five of the communities. The projects will implement and/or expand food waste reduction and recovery programs, organics reduction and composting, and/or manure best management practices; and
- Deliver two project-related national webinars, including Maryland-based case studies and models for success.

City Of Los Angeles launches food waste grant challenge

Officials for the City of Los Angeles launched a new food waste grant competition at the first ever Food Day LA event at City Hall as part of the City's ongoing efforts to divert waste from landfills.

Project categories include food waste prevention, food donation, upcycled use (including animal feed or fuel) and composting. The total grant pool is expected to reach \$100,000 and includes both administrative, and project grants. Ten projects to be submitted from members of the public will be selected.

"We should always be looking for new and innovative ways to reduce waste," said Mayor Eric Garcetti. "At a time when nearly half a million tons of food is thrown away each year, this grant will help L.A. make sure that our resources are being used as efficiently and sustainably as possible — for the good of all Angelenos."

All Food Waste Grant Challenge proposals are due December 8, 2017. Awards will be announced in mid-December, with a target start date of all projects on January 22, 2018.

"As we continue to fight against climate change, we need to stop sending food to our landfills," board of public works vice president Heather Marie Repenning stated, "We are challenging our local communities to bring us innovative solutions to help address this problem and end food waste."

Food Day at City Hall was presented by the LA Food Policy Council, and also included a Food Day resolution in City Council Chambers, reaffirming Los Angeles' commitment as a city to create a good food system for all. A Future of Food showcase on the South Lawn also featured innovative projects and the release of the new Good Food for All agenda.



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—Jeannie Bolt, Marketing Director
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PAPER

AF&PA releases updated paper reports for September

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

Containerboard

Containerboard production was essentially flat compared to September 2016. The month-over-month average daily production compared to August 2017 was 3.8 percent lower. The containerboard operating rate for September decreased from 97.2 percent to 95.9 percent, which was 0.9 percentage points lower than last September.

Year-to-date production of containerboard for export is up 2.2 percent, with the September volume falling 13.6 percent below the same month last year.

Printing-Writing Paper Report

According to the September 2017 printing-writing monthly report from the American Forest & Paper Association, total printing-writing paper shipments decreased five percent in September compared to September 2016. All four of the major printing-

writing grades posted year-over-year shipment declines. U.S. purchases of printing-writing papers also decreased, down six percent in September. Total printing-writing paper inventory levels increased one-half of one percent from August.

•September uncoated free sheet (UFS) paper shipments decreased year-over-year following the year-over-year increase in August. Imports of UFS decreased by 18 percent year-over-year in August – this follows two consecutive decreases of 20 percent or more. Meanwhile, exports of UFS papers increased 17 percent year-over-year in August, which follows three consecutive increases of 20 percent or more.

•Operating rate for coated free sheet (CFS) paper producers in September hits highest level since September 2016. U.S. imports of CFS papers decreased 9 percent year-over-year in August, the second consecutive year-over-year decline. Exports of CFS papers increased 6 percent year-over-

year in August, the sixth increase in the past eight months.

•Coated mechanical (CM) paper shipments declined year-over-year in September for the fourth consecutive month. Imports of CM increased in August, up 7 percent compared to August 2016. Exports of CM also increased, up 28 percent in August to 35,700 tons – the highest level since November 2016.

•Shipments of uncoated mechanical (UM) papers have declined year-over-year in every month when compared to the same month in 2016. Imports of UM decreased 11 percent year-over-year in August while exports of UM increased 1 percent year-over-year in August – the fifth year-over-year increase in the first eight months of 2017.

Boxboard Report

Total boxboard production increased 3.3 percent when compared to September 2016, and decreased 6.3 percent from August.

Unbleached Kraft Boxboard production increased over the same month as last year but decreased compared to August.

Total Solid Bleached Boxboard & Liner production increased when compared to September 2016, but decreased compared to August.

The production of Recycled Boxboard increased compared to September 2016, but decreased when compared to last month.

U.S. Packaging Papers & Specialty Packaging

Total Packaging Papers shipments were 222,200 tons, 3.4 percent lower than September 2016. Bag & Sack shipments were up 3.8 percent year-to-date, while Food Wrapping shipments were down 7.8 percent over the same period. The operating rate for September 2017 was 87.9 percent, while the year-to-date rate was 88.7 percent. Inventories were 168,300 tons, down slightly since August.

Monadnock Paper produces packaging from burlap bags

Monadnock Paper Mills, Inc. (MPM), a family owned manufacturer that delivers specialty papers for the technical, packaging and printing markets, announced its Kona® portfolio of packaging substrates that is made with non-wood fiber from used burlap bags diverted from the landfill.

Monadnock entered an exclusive licensing agreement with Arch Paper LLC and Whiting Paper Company for the production of a range of Kona paper and board products. Under a patented process, Monadnock is incorporating reclaimed burlap coffee bean bags into a variety of print and packag-

ing substrates for the retail and hospitality markets. The roasted shades and variegated fibers impart a beautiful and natural aesthetic that is smooth to the touch and pleasing to the eye.

Monadnock's Kona line includes stocks for hang tags, price tickets, folding boxes and wet-strength labels. They are all Forest Stewardship Council Certified and are manufactured carbon-neutral using Green-e certified renewable electricity.

In 2016, 24.6 million coffee bean bags were imported into the United States. Some of those bags are repurposed for crafts or storage but the majority were going into a landfill.

Specifying packaging made with recycled natural fiber that already served a useful life is one more way brands can demonstrate responsible sourcing and their commitment to sustainability.

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Cascades to invest \$21 million

Cascades Inc., a recovery and manufacturer of green packaging and tissue products, announced a \$21 million investment in its Cascades Inopak and Plastiques Cascades plants to acquire equipment that will enable an increase of production of food packaging, primarily for the fresh protein market.

The Cascades Inopak plant in Drummondville will benefit from a \$15 million investment. This will be used to expand the existing building and to install a high-performance rPET film manufacturing line that is unique in Canada and which includes a built-in, cutting-edge decontamination unit. This will make it possible to significantly increase the production capacity of Integral™ packaging, which is made from recycled PET, is recyclable and

allows food in certain markets – such as fresh protein – to be kept for double the amount of time, thus radically reducing food waste.

Nearly \$6 million will be invested in the Kingsey Falls Plastiques Cascades plant to modernize equipment, notably by adding a new extrusion line and two recycling lines, which will increase the production capacity by 25 percent and double the plant's internal recycling capacity. The Kingsey Falls plant produces EVOK®, the first polystyrene foam tray in North America to contain at least 25 percent recycled materials. These investments will facilitate an eventual increase in this percentage and, by extension, further reduce the CO2 emissions of products marketed by our customers.

ISRI proposes guideline amendment

The Institute of Scrap Recycling Industries (ISRI) board of directors will consider an amendment to ISRI's scrap specifications that will reclassify "Any paper which has the potential to be contaminated with bodily fluid" as a prohibitive, and add the words "and organic waste" to the end to better characterize

inbound paper products in the recycling stream.

The proposal originated in an effort by the recycling industry to emphasize with outside stakeholders that this material does not have a viable end-market consumer to be economically and environmentally sustainable.

ELECTRONICS

Sony promotes Take Back recycling plan

Sony Electronics Inc. (SEL) in the U.S. and Sony of Canada Ltd. continue to contribute to the development of the recycling infrastructure in North America. All recycling and support activities are committed to a responsible recycling process that complies with a growing mandate of state and provincial legislation.

Promoting the Sony Take Back Recycling Program

In the U.S., Sony Electronics Inc. (SEL) continues to operate its voluntary recycling sponsorship program and compliance programs in states with take back regulations.

On September 15, 2007, the company introduced the Sony Take Back Recycling Program, which aims to further encourage consumers to recycle and dispose of electronics equipment in an environmentally sound manner. Developed in collaboration with waste administration and recycling companies in the U.S., the program allows consumers to drop off Sony products at designated collection centers free of charge.

In fiscal 2016, these collection centers and through compliance channels collected approximately 9,749 tons (21,448,000 pounds) of used consumer electronics. SEL aims eventually to provide a collection center within 20 miles of the homes of 95 percent of the country's population. SEL in 2016 recycled 1.01 pounds for every 2.20 pounds sold which measures progress towards the goal of recycling the equivalent weight of recovered consumer electronics for every new product sold.

SEL provides a website through which consumers may search for the optimal method of returning and recycling used electronics products (including non-Sony products). The site enables consumers to learn about state specific recycling programs. It also includes various ways of bolstering the recycling rate, including a search function for the nearest take-back recycling center. For consumers whose closest center is more than 25 miles away, Sony products up to 25 pounds are taken back by free-post and recycled free of charge.

As of March 2017, SEL has cumulatively collected approximately 222,727 tons (490 million pounds) of electronics equipment scrap, thereby contributing to reduced use of natural resources. In the future, through the site, SEL plans to promote higher rates of used electronics collection and conduct educational campaigns on appropriate recycling methods of used products.

As a member of the Call2Recycle program, SEL recycles rechargeable batteries free of charge in line with Call2Recycle's recycling scheme.

EPA honors LG Electronics with Gold Tier, the top level recycling award

Underscoring its leadership in responsible electronics recycling, LG Electronics USA was recognized by the U.S. Environmental Protection Agency (EPA) with the Gold Tier Award, the top-level recognition in the EPA's Sustainable Materials Management (SMM) Electronics Challenge.

Presented on "CES® 2017 Sustainability Day," the Gold Tier Award recognizes LG's significant contributions to the EPA's SMM Electronics Challenge goals by increasing the amount of used electronics collected for reuse and recycle, striving to send 100 percent of used electronics collected to certified third-party recyclers, and publicly sharing detailed information about its electronic management practices.

CES 2017 spotlights LG's strong commitment to sustainability and leadership in energy efficient products and renewable energy. In addition to EPA recycling award, LG's new super-efficient TV technology earned the "Eco-Design and Sustainable Technologies" CES 2017 Innovations Award from the Consumer Technology Association (CTA™). LG is the exclu-

sive provider of advanced solar panels for the CES 2017 Smart Energy Marketplace.

What's more, LG announced at CES dozens of new ENERGY STAR® certified home appliance and TV products for 2017.

William Cho, president and chief executive officer, LG Electronics USA, applauded the EPA's program, which encourages responsible recycling. "By using third-party certified recyclers, we're proud to help drive the use of environmentally protective practices. LG's leadership in the SMM Challenge reflects our strong commitment to building a robust market for electronic recycling in the U.S."

The EPA award recognizes LG Electronics USA's collection and responsible recycling of nearly 24,233.70 tons of used electronics, diverting solid waste from landfills in the past year.

At collection events, LG encourages consumers to replace recycled electronics with new, more energy efficient ENERGY STAR certified LG TV and monitors.

Supporting its commitment to responsible recycling, LG Electronics Inc. is the world's first "Global e-Stewards Enterprise." The e-Stewards standard, developed by the Basel Action Network, is the world's most rigorous certification program for electronics recyclers.

It prevents the export and dumping of toxic electronic waste in developing countries and calls for safeguards to protect private data and ensure that recycling plant workers are not exposed to toxic materials.

This special recognition from the EPA follows other electronics recycling honors for LG, including the CTA e-Cycling Initiative Leader Award and the Design for Recycling® Award from the world's leading recycling industry group, the Institute of Scrap Recycling Industries. ISRI's highest honor recognized LG for developing products such as 4K Ultra HD OLED and LED TVs with greener features designed to reduce the environmental load at every stage of the product lifecycle.

TechWaste services now include product destruction

TechWaste Recycling, an industry leader in electronic recycling and e-waste disposal, has launched a new service line that provides companies with certified and secure product destruction and brand protection. The world of electronics recycling and data destruction goes far beyond certifying correct disposals of monitors and smashing hard-drives. Everything in today's world has a cord or a battery and virtually all consumer products have some form of electronics or packaging that is part of the product.

"If it has a cord or a battery, at some point, that product will need to be responsibly recycled," says TechWaste chief executive officer, Richard Steffens. But beyond electronics recycling, companies often need full product destruction and this is where TechWaste's newly launched service shines.

Consumer protection, litigation, and brand reputation collectively being at all-time highs, present businesses and agencies with the need to protect themselves and their customers from faulty, counterfeit, expired, recalled, or otherwise unusable prod-

ucts. Only total product destruction can assure that returned, discontinued, or unwanted products will not return to the marketplace.

TechWaste Recycling's Certified & Secure Product Destruction service ensures brand and business names are protected at all times by providing complete product destruction. Even as a product has been discontinued, it could reach a secondary resell black market and still to the consumer represent the brand.

Depending on your product destruction requirements, TechWaste can utilize a variety of destruction processes, including shredding, crushing, and manual destruction, to achieve desired results. TechWaste Recycling's product destruction methods allow for a high volume of prod-

ucts to be destroyed in minimal times, enabling us to handle any large project type requiring the demanufacturing of products.

With comprehensive product tracking, certifications to match your needs, and convenient free pickups, your product, and your reputation, is secure with TechWaste Recycling. TechWaste is fully certified to destroy products and equipment and meet mandates and laws set forth by HIPAA, DOD, CPSC and NSA. TechWaste handles all of the logistics to ensure the safe and complete disposal of your products or equipment.

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PLASTICS

FDA clears postconsumer resin for KW Plastics

KW Plastics confirmed the receipt of a no objection letter (LNO) from the U.S. Food and Drug Administration's Center of Food Safety and Applied Nutrition for KWR101-150, a natural postconsumer high density polyethylene resin.

The FDA letter confirms the resin is cleared for Conditions of Use E-G for levels up to 100 percent content. This additional clearance is in addition to its previous conformance to REACH/SVHC, CONEG and UL 94HB.

According to Pedro N. Morales, director of sales and marketing, "this new regulatory accomplishment permits KW to fully support our brand owners and processors, who are focusing on expanding the use of PCR to many rigid packaging applications where FDA food contact is required."

While KW Plastics has produced HDPE Natural blow made-grade resins for over 25 years, this expanded clearance will offer the benefit of a food contact safe resin, while offering economic and resource management savings.

"With KWR101-150, our processors will only have to inventory one natural HDPE PCR for both their FDA and non-FDA compliant applications. Thus, our customers can expect a reduction in resin inventory costs, storage and logistics requirements. KW will not be charging a premium for this FDA compliant material," Morales said.

The application and testing process was approximately a 2.5 years pursuit that KW executives believe will add value and volume to the postconsumer resin supply chain.

While KW has received a total of three LNOs for its postconsumer resins, this is the first LNO for HDPE. Two prior FDA letters of non-objection have been received for KW's PP PCR resin family, consisting of KWR621FDA, KWR621-20FDA, and other grades to be commercialized.

Current volumes of the natural HDPE postconsumer resin are estimated at 100 million lbs. annually, with additional capacity. Shipments of KWR101-150 will commence immediately.

Plastic bottle recycling dips in 2016; longterm still strong

Plastic bottle recycling remained strong but declined slightly in 2016, slipping 2.4 percent to just over 2.9 billion pounds, according to figures released jointly by the Association of Plastic Recyclers (APR) and the American Chemistry Council (ACC). The 27th annual National Postconsumer Plastic Bottle Recycling Report indicates the overall recycling rate for plastic bottles for the year was 29.7 percent, down from 31.1 percent in 2015.

The 5 year compounded annual growth rate for plastic bottle recycling was 2.1 percent.

Following more than 20 consecutive years of growth, factors that contributed to the recent decline included a slight drop in material collected for recycling, changing export markets, and increased contamination of recyclables. In addition, growth in the use of plastic bottles in packaging was offset by continuing progress in lightweighting and increased use of concentrates with smaller, lighter bottles.

In 2016, polyethylene terephthalate (PET, #1) recycling decreased by 44 million pounds. The collection of high density polyethylene (HDPE, #2) bottles, which includes bottles for milk, household cleaners and detergents, fell by 31.7 million pounds (2.8 percent) to just over 1.1 billion pounds for the year. The recycling rate for HDPE bottles slipped from 34.4 percent to 33.4 percent.

Exports of HDPE bottles rose nearly 5 percent from 184 million pounds in 2015 to 193 million pounds

(or 16.4 percent of total HDPE bottles collected) in 2016. The amount of HDPE reported processed in the U.S. fell by 37 million pounds (or nearly 4 percent) to just under 993 million pounds.

"Some U.S. recyclers are seeing these short term challenges as opportunities to innovate and invest in our plastics recycling infrastructure," said Steve Alexander, president of APR. "The key to continued growth lies in improving our sorting and collection technologies to deliver consistent, high quality yields that strengthen our global competitiveness."

This year's survey found the collection of polypropylene (PP, #5) bottles rose nearly 15.3 percent to reach 36.6 million pounds, as the PP collection rate climbed to over 20 percent. PP caps, closures and non-bottle containers are widely collected for recycling in the U.S., and these data are presented in a separate report on recycling non-bottle rigid plastics, which will be released in the coming months.

Together, PET and HDPE bottles make up 97.1 percent of the U.S. market for plastic bottles with PP comprising 1.8 percent, LDPE 0.7 percent and PVC 0.3 percent.

The 2016 U.S. National Postconsumer Plastic Bottle Recycling Report is based on a survey of reclaimers conducted by More Recycling, formerly Moore Recycling Associates, Inc.

Biodegradable plastics needed to increase recycling efficiency

In the light of the current debates around the upcoming EU Strategy on Plastics and the revision of the EU waste legislation, European Bioplastics (EUBP), the association for the bioplastics industry in Europe, echoed the call for the implementation of separate recycling streams for biodegradable plastics, made by the association of Plastics Recyclers Europe (PRE). EUBP supports the efforts to improve waste management efficiency throughout Europe and to ensure a high quality of recycled plastics.

Organic recycling is a well-established industrial process ensuring the circular use for biodegradable plastics while creating a strong secondary raw material market and opportunity for renewable energy generation. Biodegradable plastics help to reduce contamination of mechanical recycling streams by facilitating separate collection of biowaste and therefore diverting organic waste from other recycling streams. Numerous beacon projects throughout Europe demonstrate the positive effects of compostable bags on the

efficiency and quality of separate biowaste collection, including in the cities of Milan, Munich, and Paris.

If biodegradable plastic products do enter mechanical recycling streams, they can easily be sorted out with available technologies such as near infrared. University of Wageningen has analyzed biodegradable plastics in mechanical recycling streams and detected levels not higher than 0.3 percent. They also found that there were no negative effects on the properties of recycled film products containing biodegradable film recyclates.

On the other hand, contamination of organic waste streams by misthrows of non-biodegradable plastics is high and constitutes a real problem for composting facilities and negatively affects the quality of compost. This problem can only be tackled by establishing mandatory separate biowaste collection supported by the use of biodegradable plastic bags and packaging and accompanied by consumer information on correct disposal and recycling.



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PLASTICS

Video promotes recycling's strong role in job creation

As China bans imports of scrap materials, video focuses on domestic jobs in recycling

A new Your Bottle Means Jobs (YBMJ) video from the Carolinas Plastics Recycling Council and the Association of Plastics Recyclers (APR) highlights the economic impact of plastics recycling in the Carolinas at a time when China is tightening up what imported recycling commodity materials it will accept.

The video, entitled "Real People, Real Jobs, Recycle" highlights those working in the high density polyethylene (HDPE) plastics recycling industry in the Carolinas, focusing on the North Carolina recycling supply chain. Featuring employees of North Carolina companies such as ReCommunity, Plastic Revolutions, Crumpler Plastic Pipe, and Burt's Bees, the video shows that recycling is at the intersection of the environment and the economy.

"North Carolina's local industries import recycled bottles from abroad and other states to meet their demands. When households recycle just two more bottles a week, they need to know that they are helping support Carolina jobs," said YBMJ campaign leader, Blair Pollock. "In fact, a recent poll found that 66 percent of people ages 18 to 34 would be more likely to recycle if they knew what happened to their recycling after it hits the recycling bin. This video demonstrates the recycling process in a fresh, innovative way."

As China bans imports of plastics, U.S. recycling capacity will become increasingly vital, and the 3,500 plastics recycling industry jobs in North

and South Carolina are necessary for recycling all types of plastics, especially HDPE. The ripple effect of when a household recycles milk jugs, detergent, household cleaners or shampoo plastic bottles is evident with the video's demonstration of those working in the robust Carolinas plastics recycling industry.

The campaign's call to action is that if every household in the Carolinas recycled 2 more bottles per week, it would create 300 local jobs in the economy. The video is another resource to add to the current Your Bottle Means Jobs toolkit. A recent YBMJ marketing campaign in the Raleigh Triangle area had considerable regional impact and yielded a two percent increase in bottles recycled over a three month period as compared to the prior year.

"The future success and growth of the plastics recycling industry depends on two things – increased supply of material to process, and increased demand," commented Steve Alexander, president of APR. "Many HDPE applications today can use more recycled content, so any effort to increase supply is critical. This program highlights a natural, easy to implement activity for any household that will have a tremendously positive impact on the most pressing need for the recycling community."

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

Agilyx Corporation expands foam polystyrene recycling capabilities

Agilyx Corporation has received a \$50,000 grant from the Foam Recycling Coalition to purchase a densifier, allowing for more recycling of foam polystyrene.

The Oregon based energy company, known for converting plastics into valuable commodities, recently expanded to include a polystyrene conversion process. The process uses recycled polystyrene to produce a high quality styrene monomer and other petrochemical products, creating the first true circular economy for styrene.

"We are able to handle all types of foam polystyrene materials, including cups and food containers that might still have residue left on them," said Brian Moe, Agilyx's vice president of operations. "Agilyx is working hard to bring recycling options to the marketplace that have not existed in the past and are excited to see support for our efforts by the Foam Recycling Coalition."

Agilyx, which currently works with communities in the Northwest, has the capacity to process over 3,000 tons of foam polystyrene per year. Adding a densifier at the front end of the operation will allow for more efficient recycling and processing of the material.

The grant was made possible through contributions to FPI's Foam Recycling Coalition, which focuses exclusively on increased recycling of post-consumer foam polystyrene. The coalition launched the grant program in 2015 to help fund infrastructure to collect and process these products. Its members include Americas Styrenics; Cascades Canada ULC; CKF Inc.; Chick-fil-A; Commodore; Dart Container Corp.; Dyne-A-Pak; Genpak; Hawaii's Finest Products; INEOS Styrolution; NOVA Chemicals Corp.; Pactiv Foodservice/Food Packaging; and TOTAL Petrochemicals & Refining USA.



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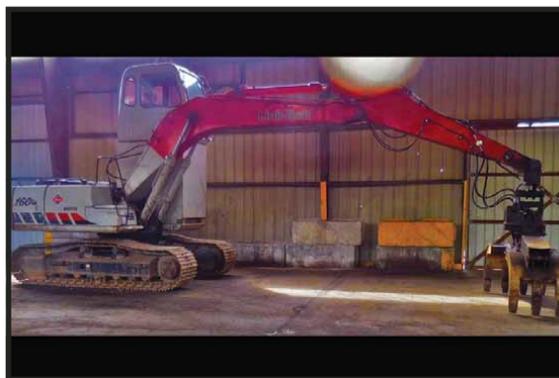
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METALS

Seaway tonnage up as peak months approach

Shipments of iron ore continue to lead the way as the 2017 shipping season moves into the final months of the year. More than 6.6 million tons of iron ore has been shipped through the St. Lawrence Seaway this year, nearly 44 percent more than in 2016.

Overall cargo shipments from the start of the shipping season on March 20 through October 31 totaled 28.7 million metric tons – up 2.5 million metric tons over the same period last year.

“This year, cargo volumes have improved in everything from mined products like iron ore and salt to construction materials and general cargo,” said Bruce Burrows, president of the Chamber of Marine Commerce. “The next couple of months are traditionally the busiest of the year with customers stockpiling raw materials for winter production. We’re optimistic 2017 will end on a positive note.”

Algoma Central Corporation, which is the largest Canadian domestic ship operator in the Great Lakes-St. Lawrence region, reported a nearly 20 percent increase in its domestic dry-bulk business revenues for the nine months ended September 30, 2017 compared to 2016.

Iron ore also continues to be the driving force for shipping through the Port of Toledo. “With nearly 2.7 million tons of iron ore moving through the Port so far this year, iron ore shipments are

up more than 190 percent. Overall tonnage remains about 33 percent ahead of 2016,” said Joe Cappel, vice president of business development for the Toledo-Lucas County Port Authority. Through October, the Port of Toledo has handled 416 vessels, 67 over the same time period last year.

St. Lawrence Seaway shipping totals are also up from last year for general cargo (up 34 percent over 2016), salt (up 22 percent over 2016) and dry bulk (up nearly 12 percent) – with many of these cargoes moving in and out of U.S. ports.

Dave Gutheil, of Maritime at Port of Cleveland, commented, “The Port of Cleveland continues to outpace our 2016 international tonnage numbers. Progress in the project cargo market is continuing, with the latest example being an imported press from Germany to a General Motors plant in northeast Ohio. Containerized cargo on the Cleveland-Europe Express continues to grow, and in October the port received three vessel calls from Spliethoff, up from our usual two monthly calls. Productivity has increased significantly this year due to the use of our Liebherr LHM 280 mobile harbor cranes, which were put into operation mid-2016. We expect a strong finish to the last two months of the 2017 season, with additional project cargo bookings and a large lot of steep pipe expected within the two weeks.”

Novelis reports record results

Novelis, a leader in aluminum rolling and recycling, reported net income of \$307 million for the second quarter of fiscal year 2018, compared to a net loss of \$89 million in the prior year period. Excluding tax-affected special items in both years, the company reported net income of \$78 million in the second quarter of fiscal 2018, up from \$60 million reported in the second quarter of fiscal 2017.

The increase in net income, excluding special items, is mainly due to a 12 percent increase in adjusted EBITDA to a record high \$302 million for the second quarter of fiscal 2018. The year-over-year improvement in adjusted EBITDA is primarily a result of higher shipments, favorable metal costs and operational efficiencies, partially offset by lower beverage can pricing. Adjusted EBITDA reached \$377 per ton in the quarter.

Net sales increased 18 percent over the prior year to \$2.8 billion for the second quarter of fiscal 2018, driven by higher average aluminum prices and higher total shipments. Shipments of flat rolled products increased four percent to an all-time quarterly record 802 kilotonnes. All regions reported higher

total shipments year-over-year. Automotive sheet shipments increased 12 percent, as production has continued to successfully ramp to meet strong customer demand in this growing market.

“As an industry, we are seeing increasing demand for lightweight, high-strength aluminum from global automotive customers based on aluminum’s ability to provide equal or better quality, strength and safety compared to other materials,” said Steve Fisher, president and chief executive officer for Novelis.

The company reported free cash flow of \$101 million for the second quarter of fiscal 2018, despite a significant rise in aluminum prices during the quarter. The \$57 million improvement in free cash flow over the prior year is primarily a result of higher Adjusted EBITDA and lower cash interest payments due to refinancing savings and timing. Capital expenditures in the second quarter of fiscal 2018 were \$43 million, \$3 million less than the prior year.

As of September 30, 2017, the company reported a very strong liquidity position of \$1.6 billion.

Nucor builds merchant bar mill

Nucor Corporation will build a full-range merchant bar quality (MBQ) mill at its existing bar steel mill located in Bourbonnais, Illinois. The MBQ mill will have an annual capacity of 500,000 tons and is expected to cost \$180 million. The project will take approximately two years to complete.

“This new MBQ mill is right in line with our long-term strategy for profitable growth. It takes advantage of our position as a low-cost producer to displace tons currently being supplied by competitors outside the region. It also builds on our market leadership position by further enhancing our product offerings of merchant bar, light shapes and structural angle and channel in markets in the central

U.S.,” said John Ferriola, chairman, chief executive officer & president of Nucor.

The Midwest region is one of the largest markets for MBQ products, and Nucor is ideally situated to take advantage of existing operating and commercial capabilities to meet this regional demand.

This project will allow Nucor to fully utilize the company’s existing bar mill by optimizing its melt capacity and infrastructure that is already in place. It will also take advantage of an abundant scrap supply in the region, as well as the company’s commercial footprint in the central U.S. Nucor Steel Kankakee, Inc. will continue to be a supplier of quality reinforcing bar products.

Novelis brings advanced aluminum alloy to North America

Novelis stated that its Advanz™ 6HF - e/s200 aluminum alloy is now available in North America following its successful application in Europe. This heat-treatable alloy provides automakers greater design flexibility due to its superior formability, strength performance and weight savings for outer and inner applications.

The high formable 6xxx-series alloy enables new opportunities to use aluminum for body sides, door inners, decklid outers and inners, and other closure panels. The alloy can also be used in designs and applications that require bending without the risk of

cracking. In addition, Advanz 6HF - e/s200 creates a weight savings of nearly one-third over steel in inner door applications, benefiting vehicles that need to achieve weight reduction due to consumer’s desire for more in-vehicle content, while also improving fuel economy and reducing vehicle emissions.

Advanz 6HF - e/s200 is the latest addition to Novelis’ existing 6xxx-series. This innovation is part of the company’s continued efforts to provide automakers with sustainable, high-performance solutions that can help drive the future of the automotive industry.

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METALS

European aluminum beverage recycling rate at 73 percent

The overall recycling rate for aluminum beverage cans in Europe (EU 28 + EFTA) increased by 1.6 percent to a new record level of 72.9 percent in 20141.

European Aluminum considers this result an important milestone on its path towards the future split aluminum recycling target of 75 percent for 2025, proposed by the European Union in its Circular Economy package.

On the whole European continent (including other East-European countries, Russia and Turkey) nearly 30 billion cans have been recycled. This means that every second an aluminum beverage can is being recycled somewhere in Europe. Their metal stays in the European circular economy and remains available for the production of new aluminum products. Recycling aluminum takes 95 percent less energy than producing it from its raw materials. The recycling process also generates only 5 percent of the greenhouse gas emissions.

Aluminum beverage cans contribute to a large extent to the overall recycling result of all aluminum packaging. Although only a few European countries already report specific recycling numbers to Eurostat for the whole aluminum packaging fraction we can safely assume that all European citizens together recycle more than 60 percent of their used aluminum packaging. However, this also means that the aluminum industry together with its partners in the value chain has to bridge the gap with the newly proposed targets within a relatively short period of time. European Aluminum will continue to play its part in these activities.

Maarten Labberton, director of the European Aluminum Packaging Group, called upon the EU Member States to make an extra effort to collect, sort and recycle more drink cans and other aluminum packaging items within the coming years. "While we support the ambitious 75 percent target for aluminum packaging we strongly recommend that local authorities together with the waste management chain invest more in innovative sorting technologies. Fortunately, these investments will pay off quickly, due to the relatively high scrap value of aluminum."

Through its successful awareness program with the can manufacturers, Every Can Counts, European Aluminum is continuously addressing the collection and recycling of so called "out-of-home" cans; cans consumed at the workplace, at festivals or other outdoor events. In 2017 Poland and the Benelux countries joined Every Can Counts and more countries are expected to adopt this program in the near future.

Nucor Corporation reports results for third quarter and nine months of 2017

Nucor Corporation announced consolidated net earnings of \$268.5 million, or \$0.83 per diluted share, for the third quarter of 2017. By comparison, Nucor reported consolidated net earnings of \$323.0 million, or \$1.00 per diluted share, for the second quarter of 2017 and consolidated net earnings of \$305.4 million, or \$0.95 per diluted share, for the third quarter of 2016.

For the first 9 months of 2017, Nucor reported consolidated net earnings of \$948.4 million, or \$2.94 per diluted share, compared with consolidated net earnings of \$636.6 million, or \$1.99 per diluted share, for the first 9 months of last year. Consolidated net earnings of \$2.94 per diluted share for the first nine months of 2017 exceeds the reported annual diluted earnings per share for each of the previous eight years.

Earnings in the third quarter of 2017 include a net benefit totaling \$13.2 million, or \$0.04 per diluted share, related to tax return true-ups and state tax credits. Included in the third quarter of 2016 results were charges related to legal settlements of \$33.7 million (\$0.06 per diluted share) and a net benefit of \$11.1 million (\$0.02 per diluted share) related to fair value adjustments to assets in the corporate/eliminations segment.

Nucor's consolidated net sales of \$5.17 billion in the third quarter of 2017 was consistent with \$5.17 billion in the second quarter of 2017 and increased 21 percent compared with \$4.29 billion in the third quarter of 2016. Average sales price per ton in the third quarter of 2017 increased 2 percent from the second quarter of 2017 and increased 7 percent from the third quarter of 2016. Total tons shipped to outside customers were 6,618,000 tons in the third quarter of 2017, a 2 percent decrease from the second quarter of 2017 and a 12 percent increase from the third quarter of 2016. Total third quarter steel mill shipments decreased 3 percent from the second quarter of 2017 and increased 18 percent from the third quarter of 2016. Third quarter of 2017 downstream steel products shipments to outside customers increased 10 percent from the second quarter of 2017 and increased 3 percent from the third quarter of 2016.

In the first 9 months of 2017, Nucor's consolidated net sales increased 24 percent to \$15.16 billion, compared with \$12.25 billion in last year's first nine months, and total tons shipped to outside customers increased 8 percent from the first nine months of 2016, while average sales price per ton increased 15 percent.

The average scrap and scrap substitute cost per ton used during the third quarter of 2017 was \$317, an

increase of 1 percent from \$313 in the second quarter of 2017 and an increase of 26 percent compared with \$252 in the third quarter of 2016. The average scrap and scrap substitute cost per ton used in the first nine months of 2017 was \$304, an increase of 35 percent from \$225 in the first nine months of 2016. Overall operating rates at steel mills decreased to 83 percent in the third quarter of 2017 as compared to 88 percent in the second quarter of 2017 and increased from 74 percent in the third quarter of 2016. Operating rates for the first 9 months of 2017 increased to 86 percent as compared with 80 percent for the first nine months of 2016.

Imports continue to negatively impact the U.S. steel industry. Through the first 9 months of 2017, finished steel imports accounted for an estimated 27 percent share of the U.S. market and have increased an estimated 15.1 percent compared to the same period last year. The industry continues to pursue trade cases to combat unfairly traded imports. Final determinations issued earlier this year against cut-to-length steel plate imports from twelve countries are having a positive impact as steel imports of these products have decreased in

the first nine months of this year compared to the same period last year. The United States Department of Commerce has made several rulings imposing duties on additional steel products since the beginning of the year that are favorable to the domestic steel industry. Although slower than Nucor would like, they are encouraged by the steady progress being achieved through the prosecution of product and country specific trade cases. Nucor believes this success is due to the overwhelming evidence that foreign competitors receive support from illegal subsidies.

Approaching the end of 2017, Nucor is encouraged by a number of positive factors impacting the markets going into 2018. They see generally stable or improving market conditions for nonresidential construction, automotive, energy, heavy equipment and agriculture. Although illegally traded imports remain at unacceptable levels, Nucor is encouraged by the cumulative benefits of the domestic steel industry's successful trade cases.

Nucor expects fourth quarter of 2017 earnings to be similar to slightly decreased from the third quarter of 2017, exclusive of the previously mentioned tax benefits recognized in the third quarter of 2017.

■ For additional metals news, see page B1

METAL RECYCLERS

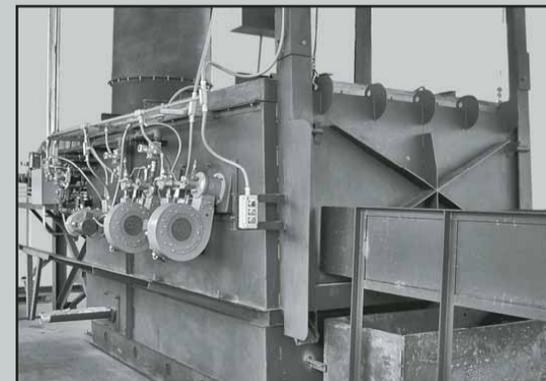
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WASTE

Workplace injury rate drops for collection workers

The U.S. Bureau of Labor Statistics (BLS) released its 2016 Workplace Injury and Illness Data, showing major improvements in safety within the solid waste collection industry. In addition to the decrease in total recordable cases,

the report also shows declines in injuries and illnesses that resulted in lost workdays and job transfers or job restrictions.

“Today’s BLS release of industry injury and illness data illuminates the

progress being made to improve safety performance nationwide,” said NWRA president and chief executive officer Darrell Smith. “Since our board of trustees designated safety as a strategic initiative in 2015, NWRA has worked to provide its members with tools and outreach efforts through Safety Stand Downs and our Safety Professional Development Series, as well as collecting our own data from members to monitor trends in safety.”

Nationally, the release reports a downward trend of incidence rates across all private industries, with the total recordable cases falling to 2.9 per 100 full time workers in 2016, down from 3.0 in 2015 and 3.21 in 2014.

The BLS data for the waste and remediation sector shows:

- The total recordable cases of workplace injury and illness in the Waste Management and Remedial Services category was 4 per 100, a decrease from 2015 at 4.5 per 100.

- The rate for cases with days away from work was 1.7 per 100, a decrease from 1.9 per 100 in 2015.

- The rate for cases that resulted in job transfer or restriction was 1.0 per 100, a decrease from 1.2 per 100 in 2015.

In addition, the BLS data found that in the subcategory for solid waste collection employees within the waste and remediation category was lower in each of three measurements:

- The total rate of recordable cases for solid waste collection employees

was 5.2 per 100, down from the 2015 rate of 6.6 per 100.

- The rate of cases with days away from work was 1.9 per 100, down from the 2015 rate of 2.9 per 100.

- The rate of cases with job transfer or restrictions was 1.0 per 100, down from the 2015 rate of 1.7 per 100.

“In early 2016, NWRA convened an unprecedented industry wide Safety Summit to significantly reduce crashes, injuries, illness and fatalities by building out sustainable prevention measures and engagement processes for a stronger industry safety culture,” said NWRA National Safety director Anthony Hargis.

“As a result of NWRA’s Safety Committee advances, the tools and processes we have developed focus on critical hazards and the industry sectors where performance can be improved. Our tools, such as ‘Safety Monday’ or Waste Expo Safety Education Sessions, help develop employee and employer best practices within the industry.”

The BLS data on workplace injury and illness is published annually, and information on the waste and recycling industry is based on the U.S. Census Bureau definition of the waste and remediation services industry (NAICS Code 562) as “solid waste collection, hazardous waste collection, other waste collection, hazardous waste treatment and disposal, solid waste landfill, solid waste combustors and incinerators.”

INDUSTRY PROFILE

A Closer Look

by Donna Currie

Bomac Carts

Cindy Lapidakis • 800-909-1147

Bomac Carts got its start as a small family business operated by a brother and sister team before it was purchased by Royal Basket Trucks about eight years ago, according to Cindy Lapidakis, the vice president of sales and marketing for both companies.

Since then, a third company, Anthros PVC Products has joined as the third sister company, which is also under Lapidakis’ watchful eye. The three sister companies share employees, with fewer than 50 that could be considered Bomac employees.

Lapidakis joined Royal Basket about 10 years ago. “I was part of the acquisition team,” she said, regarding the Bomac purchase. Prior to joining Bomac, she had worked in the printing industry, where Royal Basket was one of her customers.

Lapidakis said that Bomac “has stayed true to its focus” and has relied on its strength as a responsive manufacturing company that meets the needs of its customers. It has also become recognized as a company that meets the specific needs of its customers rather than relying on a standard catalog of products.

When it first started, Bomac focused on selling carts to the printing industry as well as the USPS, but their product line is much broader, servicing companies that need to move paper waste, car parts, computer parts and fine metals. The carts can be found recycling waste from retail grocery stores, fast food restaurants and more.

Over the past eight years, Lapidakis said that the customer base has remained consistent, as far as the markets it serves. “Bomac customers are straightforward,” she said. “Hard core manufacturing.”

Located in Wisconsin, the company builds everything to order, and generally ships products in 7 to 10 days. “We’re very proud to keep Bomac company manufacturing products in the U.S.,” she said.

Lapidakis said that when customers order carts, they can change anything from the type of casters, to the base configuration, to the wheel height, to the color of the finished carts. One customer prefers purple carts, while another always orders everything in lime green. In addition, carts can be customized with a company name, logo, or phone number.

“It’s nice to be in a position where you can get somebody the right container on wheels,” Lapidakis said. While customers generally aren’t asking for new product lines or radical changes to carts, she said that the company has done some unusual modifications, like creating a base for a large cart that had specific touch points so it could be set on a scale to be weighed.

Some carts have been fitted with RFID tags, and Lapidakis thinks that type of technology will grow to the point where “everything will be on a GPS container” so companies can track their containers and materials.

While Bomac has its products and production fine-tuned, Lapidakis said that markets can be a challenge. Not so much for their own manufacturing, but when customers have to pay more for their own materials, they don’t have as much room in the budget to buy new containers.

Lapidakis said that for her, no two days on the job are alike, and she also spends a lot of time traveling, including attending trade shows and visiting distributors to help train them on products. The best part of the job, though, is “hearing relief from a customer or distributor that we can help them,” and “to know that somebody else’s job is easier,” because of Bomac products.

The company also makes its community better, since they support both local schools and local charities. They also partnered with the JJ Watt Foundation to send products for hurricane relief efforts.

While working with customers and distributors is enjoyable, “The best part is the people that I work with,” Lapidakis said. “Everybody rises to the occasion.”

Ohio Senate approves Slow Down to Get Around legislation

The Ohio Senate unanimously approved SB 127, legislation that would protect workers in the waste and recycling industry on the state’s roadways. This vital legislation, commonly referred to as Slow Down to Get Around (SDTGA), is designed to protect waste and recycling workers.

The legislation would require motorists, when they approach a stationary vehicle displaying flashing, oscillating, or rotating lights, to:

- Proceed with caution and yield the right-of-way, if possible with due regard to safety and traffic conditions, by making a lane change into a lane not adjacent to that of the stationary vehicle, if on a roadway having at least four lanes with not less than two lanes proceeding in the same direction as the approaching vehicle; or

- Proceed with due caution and reduce the speed of the vehicle, maintaining a safe speed for road conditions, if changing lanes would be unsafe or impossible.

This effort was led in the Ohio state Senate by Senator Frank LaRose (R), Chairman of the Transportation, Commerce and Workforce Committee. The

legislation now goes to the Ohio state House of Representatives.

The most recent data from the U.S. Bureau of Labor Statistics shows that the waste and recycling collection occupation ranks fifth in the nation for fatal work injury rates. It shows that many accidents involving waste and recycling collection workers are caused by inattentive motorists or distracted driving.

“Currently 16 states that have enacted Slow Down to Get Around laws, including Alabama, Florida, Georgia, Indiana, Illinois, Iowa, Kentucky, Michigan, Missouri, New Jersey, New York, North Carolina, Oklahoma, Virginia, Wisconsin, and West Virginia. We are encouraged by the vote in the state senate that Ohio will become the 17th state,” said Peggy Macenas, NWRA’s director for the Midwest Region.

Slow Down to Get Around is a nationwide campaign by NWRA and its state chapters. In all states, NWRA encourages motorists to be aware of the roadside dangers facing waste and recycling collection workers. NWRA is asking the media, public safety and transportation agencies to educate motorists about the new law.

WASTE

NY DEC strengthens state's solid waste regulations

New York State Department of Environmental Conservation (DEC) Commissioner Basil Seggos announced that the state has finalized revisions to the state's Solid Waste Management Regulations, commonly referred to as Part 360. In the first major overhaul of the program in 20 years, these regulations set design standards and operational criteria for all solid waste management facilities and went into effect on November 4, 2017.

"Ensuring every community has access to clean water supplies is critical, and illegal dumping and inappropriate waste management are a growing threat to our precious groundwater resources. Under Governor Cuomo, New York is setting a national standard for solid waste management and waste recycling," said DEC commissioner Seggos. "As we celebrate the 25th anniversary of New York's recycling laws, these final regulations incorporate public comments we received and will ensure New York State remains a leader in protecting our communities and natural resources through enhanced recycling and waste management. DEC is committed to working in partnership with local governments that serve on the front lines of waste management."

DEC's comprehensive revisions include the addition of solid waste management facilities, activities, and waste streams that are not currently addressed within existing Part 360, to institute a level of control necessary to ensure protection of human health and the environment. In addition, these amendments relax or eliminate existing requirements that have proven to be burdensome to the regulated community with little or no environmental benefit.

The Part 360 series rulemaking process formally began in February 2016. Following extensive public outreach that included two public comment periods, five public hearings, and more than 25 workshops and technical meetings with stakeholders, and careful consideration of thousands of comments, the revised Part 360 series regulations are now final.

The final regulations contain comprehensive revisions to the State's existing solid waste management regulations, including:

Regulatory Controls on Wastes from Oil and Gas Production

The final regulations enhance the regulatory controls on drilling wastes and high-volume hydraulic fracturing wastes. These regulations strengthen existing prohibitions on the disposal of flowback water and production brine from oil and gas production, increase testing requirements and conditions for the reuse of brines for dust and ice control on roads while prohibiting the reuse of flowback water and Marcellus Shale production brines, and require waste-tracking documents for the transport of most drilling and production wastes. In addition, the regulations require the installation and operation of radiation detectors at solid waste management facilities that receive drilling and production wastes or municipal solid wastes.

Improved Construction and Demolition Debris and Fill Material Management

The final regulations combat the emerging threat posed by the illegal dumping of construction and demolition debris (C&D) and fill material. The regulations require enhanced tracking for C&D debris and fill material generated in New York City, as well as for certain fill material generated anywhere in the state. The regulations also limit the exempt disposal of C&D debris, and provide expanded allowance for the reuse of fill materials in environmentally protective situations.

Improved Management of Compost and Mulch

The final regulations strengthen oversight of previously unregulated mulch-processing facilities to address potential threats to water quality and the environment across the state. New criteria have also been added to govern facilities that produce and store mulch to reduce environmental impacts from larger mulch facilities, including odors, dust, groundwater and fires. Enhanced criteria for composting facilities to address potential groundwater impacts have also been added.

Enhanced Support for Recycling

The final regulations make it easier to site facilities that process organic wastes while providing appropriate environmental protections. The regulations change how municipal grants are timed to ensure funding is available for both priority infrastructure projects and operational assistance such as support for recycling coordinators.

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ALTERNATIVE ENERGY

The NGO Energy Vision elects new board members

Energy Vision, a national non-profit championing clean, renewable, petroleum-free transportation fuels, including renewable natural gas made from organic waste, has elected three new board members. They are former New York City first deputy mayor Norman Steisel, economist and climate mitigation project expert Bipasha Chatterjee, and leading international tax lawyer Stephen Land, who is the incoming board chair.

Norman Steisel is founder, chairman and chief executive officer of EnEssCo Strategies, a consulting firm serving environmental services and products companies working in waste handling and disposal, water supply and wastewater treatment and alternative clean energy. His previous positions include executive vice president and chief operating officer of the Philadelphia Stock Exchange (2003-2008), first deputy mayor of the City of New York (1990-1994), senior vice president at the investment banking firm Lazard Freres & Co. (1986-1989), New York City commissioner of sanitation (1979-1986) and New York City's first deputy budget director (1974-1979).

As first deputy mayor Steisel led day-to-day management of city government operations, finding efficiencies that saved the city \$2 billion. At Lazard, he was in charge of investment banking services to environmental firms and municipal governments. As sanitation

commissioner, he rebuilt the city's waste disposal system and saved the department \$100 million annually by reducing truck crews from three people to two.

Economist Bipasha Chatterjee has extensive experience leading projects in the areas of climate change mitigation action, the UN Clean Development Mechanism, greenhouse gas inventory systems and renewable energy related research. As an economist at the UK firm AEA Technology her clients included the UK Government, Grantham Institute of Climate Change, and the European Commission.

At AEA and KPMG, Chatterjee contributed directly to consortium and partnership building activities for delivering large scale projects. She teaches Environmental Policy at Columbia University's Earth Institute as well as Environmental Economics and Urban Economics at Hunter College, City University of New York.

Stephen Land is recognized as one of the top international tax lawyers in the U.S. A partner in the law firm of Duval & Stachenfeld LLP and chair of its tax practice division, he is also the immediate past chair of the tax section of the New York State Bar Association, and has published extensively on tax law. Before joining Duval & Stachenfeld, Land served as the head of the U.S. tax practice at the UK law firm Linklaters LLP, where he practiced for 15 years in their New York office.

Enerkem's WTE facility now approved to sell ethanol

Enerkem Inc., a waste-to-biofuels and renewable chemicals producer, has received approval from the U.S. Environmental Protection Agency (EPA) to sell cellulosic ethanol produced at its Edmonton, AB, Canada facility under the U.S. Renewable Fuels Standard (RFS).

Enerkem's state of the art advanced biofuels facility has successfully completed all the necessary steps required by the EPA and is the first ever municipal waste-to-cellulosic ethanol plant to receive approval to sell in the U.S. Under the 2007 Energy Independence and Security Act, 16 billion gallons of cellulosic biofuels are to be blended in the conventional transportation fuel pool by 2022.

The EPA's rigorous registration process seeks to ensure that the strin-

gent regulatory requirements of the U.S. RFS are met. Enerkem is now registered for D3 Renewable identification numbers (RINs) credits. These RIN credits are purchased by U.S. refiners to comply with the U.S. RFS program. The EPA has established that cellulosic biofuels reduce greenhouse gas emissions by at least 60 percent when compared to gasoline.

Earlier this year, Enerkem expanded its Edmonton biofuel facility to produce some 13 million gallons of cellulosic ethanol annually following the commissioning of its methanol-to-ethanol conversion unit. This pioneering facility has been financed by private sources and received funding support from Sustainable Development Technology Canada (SDTC), Alberta Innovates and Alberta Energy.

Waste Oil Recyclers acquired

Mahoney Environmental, a recycler of used cooking oil for 65 years, has purchased Waste Oil Recyclers, Inc., (WOR) a used oil recycling company based in Modena, Pennsylvania a suburb of Philadelphia. The integration of WOR into Mahoney Environmental will allow for direct service to Mahoney customers throughout the Mid-Atlantic region.

The acquisition of this recycling company is a strong fit into the

Mahoney Environmental strategy to grow our reach in the direct servicing of our customers for used cooking oil collection, recycling and other back-of-the-house service needs of our customers. Through purchasing WOR, Mahoney Environmental will continue to expand these services nationally and solidify its spot as one of the nation's top licensed recyclers in the U.S.



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BUSINESS BRIEFS

Quest Resource welcomes new senior VP of sales

■ Quest Resource Holding Corporation, a leader in sustainability, recycling, and environmental services, announced that its wholly owned subsidiary, Quest Resource Management Group, LLC hired Ric Hobby as senior vice president of sales. Hobby has over 20 years of leadership experience in business development within the environmental services and technology space. In his new role, Hobby will complement Quest's existing sales team and will help drive new business revenue.

Hobby previously served as a president and general manager at Enevo as well as senior vice president of sales at SMS Assist and vice president of sales at Oakleaf Waste. Hobby has been instrumental in helping national and regional customers increase efficiency by deploying innovative cloud-based solutions with powerful predictive analytics. He also developed and managed several keystone waste minimization programs, as well trained and developed high performance sales teams.

Sennebogen celebrates 65 years of operation

■ As a worldwide equipment manufacturer, Sennebogen recently celebrated 65 years of operation.

Sennebogen's focus, as it has been since 1952, is on providing productive and cost efficient material handling solutions for users of equipment in such fields as scrap, steel mill services, waste, recycling, demolition and many logging applications.

At Straubing Plant 2, an expansion over the past 2 years has seen the addition of about 375,000 sq.ft. of new production and warehouse space. At the same time, machine shipping has been restructured, storage areas extended and logistics processes optimized and modernized.

Sennebogen has 1,400 employees at production and support facilities around the world, including the North American headquarters. With machines ranging up to 350 tons, Sennebogen has always focused both on special customer-specific solutions and on individually configurable series machines.

Rafferty named Akro-Mils executive director of sales

■ Akro-Mils, a North American company involved in storage, organization and transport products has named Dana Rafferty executive director of sales and marketing.

In her new position, Rafferty will lead the sales, marketing, and customer service teams in aligning resources to maximize Akro-Mils' penetration and position with core customers, drive innovation and problem solving capabilities for core customers, and identify and develop growth strategies for under-leveraged potential core customers.

Rafferty joins Akro-Mils with over 25 years of sales and marketing experience. Most recently, Rafferty was the director of national accounts at Hoshizaki America. She has held sales leadership roles utilizing the 80/20 business model at several companies including Illinois Tool Works, where she successfully built a new division that focused on developing and expanding new technologies for the food service industry.

Muncie Power hires new senior executive director

■ Muncie Power Products, Inc. has hired a new senior executive director of people strategy and general counsel, Damon Elmore.

As the senior executive director of people strategy and general counsel, Elmore will serve as the company's in-house legal counsel and liaison with all external legal firms representing Muncie Power Products as well as lead the company's people strategy. Within this role his responsibilities will include overseeing acquisitions, strategic planning, human resources, succession planning and adult learning.

Elmore joins the Muncie Power Products team with his most recent previous experience as a partner at the law firm of Nowell Sparks, LLC where he led Human Resources and Employment Practices Consulting Group. Prior to this, he served as the former vice president of human resources with the Rayloc and Altrom divisions of Genuine Parts Company.

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BUSINESS BRIEFS

NWRA expands government relations team

■ The National Waste and Recycling Association announced that it hired veteran lobbyist Chris Greissing as vice president, federal relations.

Greissing came to NWRA from the mining industry. For the last decade, he led the government affairs team at the Industrial Minerals Association as the vice president, government affairs. Prior to that, he represented about a dozen biotech and pharma companies on issues before the federal government.

Greissing received his undergraduate degree from Georgetown University and his law degree from California Western School of Law in San Diego.

ADESA Dallas appoints new general manager

■ ADESA, a business unit of KAR Auction Services, Inc., has appointed Allan Wilwayco the new general manager at ADESA Dallas. In his new role, Wilwayco will lead the day-to-day business operations of one of the largest ADESA sale facilities in the country.

Wilwayco has nearly three decades of experience in various areas of the auto auction industry, from finance to business development, while holding several leadership positions. He served as general manager of Manheim Orlando for six years and as vice president of digital operations for Manheim Digital Marketplace.

Wilwayco and his management team at ADESA Dallas will have more than 200 years of combined experience in the auto auction industry.

Vortex celebrates 40 years in business

■ Vortex has recently celebrated 40 years of designing and manufacturing slide gates, diverter valves, iris diaphragms and loading spouts for use in gravity flow, dilute phase and dense phase pneumatic conveying applications.

Vortex was founded in 1977 by Loren Neil Peterson and his son-in-law, Lee Young. The company was established with its patented Vortex Orifice Gate – the first valve designed specifically for handling dry bulk solid materials. Since then, Vortex has established more than 20 innovative valve designs which are being used by more than 20,000 factories in 80 countries to handle thousands of material types.

Vortex has continued to grow and establish itself as the leader in dry bulk material handling components.

Bandit Industries names Custom Truck as dealer

■ Bandit Industries announced Custom Truck and Equipment a Utility One Source company as an authorized Bandit dealer serving Texas and Oklahoma. Utility Source One will carry a full line of Bandit hand-fed chippers and stump grinders, as well as provide sales, service and support.

EPA appoints Jim Gulliford as Region 7 administrator

■ The U.S. Environmental Protection Agency (EPA) Administrator Scott Pruitt announced the appointment of Jim Gulliford of Missouri to become regional administrator for Region 7. Gulliford will oversee environmental protection efforts in: Iowa, Kansas, Missouri, and Nebraska. He previously held the position of regional administrator for Region 7 from 2001-2006.

Gulliford most recently held the position of executive director of the Soil and Water Conservation Society where he led the organization from 2009-2016. He was responsible for all operation aspects of the non-profit organization that advocated for conservation professionals and for science-based conservation practices, programs, and policy. The organization's mission is to foster the science and art of natural resource conservation on working land – land used to produce food, fiber, and other services that improve the quality of life people experience in rural and urban communities.

Prior to joining Soil and Water Conservation Society, Gulliford spent nearly a decade at EPA. From 2006-2009, he served as EPA assistant administrator for the office of prevention, pesticides, and toxic substances where he was responsible for helping protect public health and the environment from potential risks of pesticides and chemicals. Gulliford also served as director of the Division of Soil Conservation at the Iowa Department of Agriculture and Land Stewardship for 15 years, where he was responsible for the development and management of soil conservation, water quality, and mine regulation for the state of Iowa.

Vexor Technology board names Romero as CEO

■ Vexor Technology announced its board of directors has appointed Mario Romero as chief executive officer.

Steve Berry will continue with Vexor as a board member, shareholder and in a senior leadership role focusing his efforts on business development and achieving our strategic mission of growth through additional Vexor Engineered Fuel facilities, as well as, developing additional outlets for the engineered fuel produced from our existing facilities.

Kett elected to SkillsUSA board of directors

■ SkillsUSA announced the election of John W. Kett, chief executive officer and president of Insurance Auto Auctions Inc. (IAA), a business unit of KAR Auction Services, Inc. to the SkillsUSA national board of directors. The SkillsUSA board of directors made Kett's appointment official at its recent meeting in Alexandria, Virginia.

Kett has actively participated on SkillsUSA's Foundation committee since 2013 and was honored with SkillsUSA's Pat Dalton Outstanding Achievement Award in 2016.



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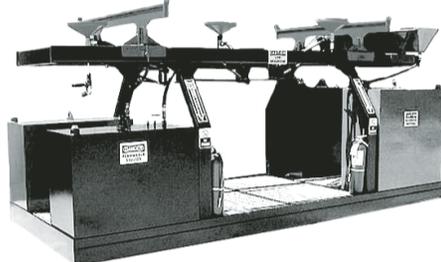
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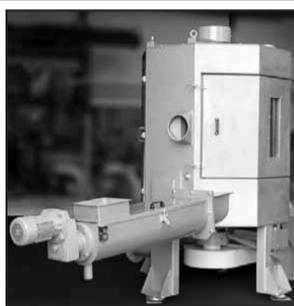
FAIRBANKS ANNOUNCES FB4000 DESKTOP SCALE INSTRUMENT

Fairbanks Scales Inc. launched the new FB4000 desktop scale instrument, available in a NEMA 12 desktop enclosure and a NEMA4X stainless steel wash down enclosure.

FB4000 features a highway system application, enhanced inbound/outbound application, and the kernel application. Users select and configure the desired application during initial FB4000 setup.

The FB4000 has a single board computer running a Windows operating system. Featuring a wide variety of output and interface ports, the SBC can connect to Ethernet, RS-232, USB 2.0 and HDMI ports.

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HYUNDAI CONSTRUCTION EQUIPMENT HX130LCR EXCAVATOR

Hyundai Construction Equipment Americas introduced the Hyundai HX130LCR. The 13.5 ton machine also is available in a second standard configuration, the HX130LCRD, which includes a dozer blade.

The HX130LCR excavator is powered by a 73.6 hp Perkins 854F Tier 4 Final diesel engine. The LCR model has a standard operating weight of 29,750 lbs., while the LCRD model's standard operating weight is 31,290 lbs. It achieves a maximum dig depth of 18'4" and maximum digging reach of 27', and provides bucket digging force of 22,860 lbf. The HL130LCR excavator is equipped with a standard 0.52 yd³ capacity, 30" bucket.

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MACK TRUCKS OFFERS NEW ERGONOMIC SEATING

Mack Trucks made a new multi-position seat for the Mack® LR model available, boosting comfort and ergonomics for operators in right-hand stand-up/sit down drive configuration.

The enhanced multiple-position seat offers improved adjustability and comfort, whether seated or standing. Both the seat back and base offer adjustments, allowing drivers of varying statures to comfortably operate the truck and joystick controls. The seat is built specifically to meet the challenges of customers who require enhanced maneuverability and improved visibility.

The new seat will be available in Q1 2018.

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PETTIBONE INTRODUCES CARY-LIFT 254I TO EQUIPMENT LINEUP

Pettibone has introduced the Cary-Lift 254i to its product line. Purpose-built to deliver numerous safety and performance benefits over alternatives, the Cary-Lift is particularly adept at moving and placing heavy pipe in stock yards and construction sites.

The Cary-Lift 254i features a unique overhead lift arm design, giving the operator full front visibility when lifting or transporting loads. The forks are capable of tilting down 90 degrees for specialized tasks, such as unloading pipe from railroad gondola cars.

The 254i is powered by a 225 hp Cummins QSB6.7 Tier 4 diesel engine with DOC and SCR aftertreatment.

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BUSINESS BRIEFS

Recycle Track Systems appoints board member

■ New York-based Recycle Track Systems (RTS), a waste and recycling management on-demand technology company, recently announced that Lew Frankfort, the former chairman and chief executive officer of Coach, Inc., has joined their board of directors. Frankfort will serve as a resource and advisor as RTS expands after its recent nearly \$12-million Series A funding this past July.

RTS currently works with businesses across the country, focusing on sustainability through efficient routing, training and on-demand orders; streamlining the waste removal services for clients such as, Whole Foods, WeWork, Juice Press, and the Natural Resources Defense Council (NRDC).

Frankfort's career spans over 35 years with Coach where he served as chairman and chief executive officer. During his time with the company, he transformed a small manufacturer of leather goods into a leading global, modern luxury accessories brand. Prior to joining Coach, Frankfort held various management roles in New York City government, culminating in the position of Commissioner of New York City's Head Start and Day Care Programs. Frankfort serves on the board of directors of shared office space provider WeWork, and is affiliated with a number of not-for-profit organizations.

The Healthcare Waste Institute names new chairs

■ The Health Waste Institute (HWI) disclosed that Selin Hoboy, vice president of legislative and regulatory affairs at Stericycle, Inc. has been elected as the new chair while Rudy Vingris, the healthcare business development manager for Waste Management will remain as vice chair. Hoboy will begin her one-year term on January 1, 2018.

Hoboy is responsible for managing legislative and regulatory affairs. She has worked in the environmental health and safety industry for over 20 years, and at Stericycle for over 17 years. Selin has supported the waste industry as an active member of the Healthcare Waste Institute.

Vingris has been involved extensively in hazardous waste management for over 25 years. At Waste Management, Vingris manages the Pharmaceutical & Hazardous Waste Management Program that provides services to healthcare customers that manages and disposes of all pharmaceutical and chemical wastes.

The Healthcare Institute is an industry group within the National Waste & Recycling Association. Their mission is to facilitate responsible healthcare waste management.

With martial arts, it doesn't matter if you're heavily outnumbered – your enemies will patiently wait to attack you one by one, dancing around in a threatening manner, until you knock each one out.

Chicago Pneumatic names new sales manager

■ Chicago Pneumatic Construction Equipment (CP) has named Scott Christopher to the position of regional sales manager, effective immediately. Christopher will manage sales in the southeast region of the U.S. covering the states of North Carolina, South Carolina, Tennessee, Alabama, Georgia and Florida.

In his new role, Christopher will be responsible for working with manufacturer representative groups to maintain existing accounts and assist in cultivating new customers. He will also help grow the CP brand and expand to the full potential in the market by looking for other opportunities to add more dealers.

Prior to joining CP, Christopher was a branch manager at United Rentals and held other sales and management positions throughout his 15 years there. Additionally, he has worked in the construction industry for 18 years.

Waste Connections increases cash dividend

■ Waste Connections, Inc.'s board of directors has declared a 16.7 percent increase in the regular quarterly cash dividend on the company's common shares. The regular quarterly cash dividend, which increases from \$0.12 U.S. per common share of the company to \$0.14 U.S. per common share of the company, were paid on November 22, 2017, to shareholders of record on the close of business on November 8, 2017. The board intends to review the quarterly dividend each October, with a long-term objective of increasing the amount of the dividend.

Shareholders of Waste Connections whose common shares are held by a bank or broker that participates in U.S. depository DTC will receive payment of their dividends in U.S. dollars. Shareholders of Waste Connections whose common shares are held by a bank or broker that participates in Canadian depository CDS will receive payment of their dividends in Canadian dollars.

Shareholders of Waste Connections who hold their shares in direct registration with Computershare, the company's transfer agent, will receive payment of their dividends in Canadian dollars if they are residents of Canada, as reflected in Waste Connections' shareholders register, and will receive their dividend payments in U.S. dollars if they are not residents of Canada, including if they are residents of the U.S.

TransAxle names director of business development

■ TransAxle has promoted Matt Douglass to the newly created position of director of business development.

In this position, Douglass will lead several significant growth initiatives currently under development at TransAxle. Additionally, Douglass will be responsible for developing an integrated, customer centric mindset across TransAxle.

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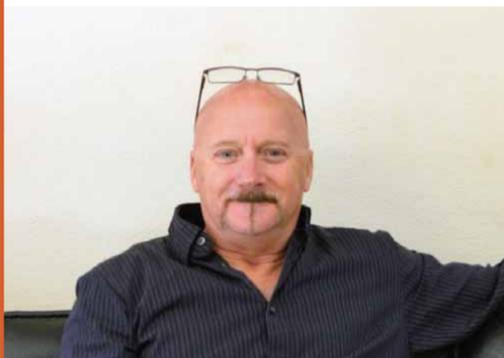
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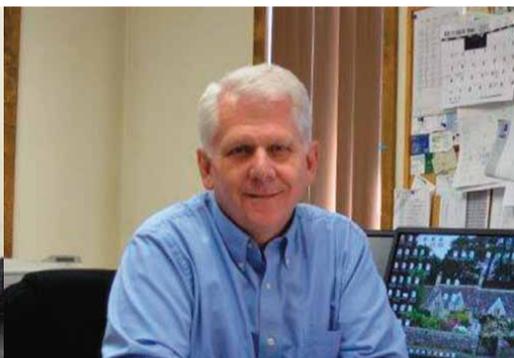
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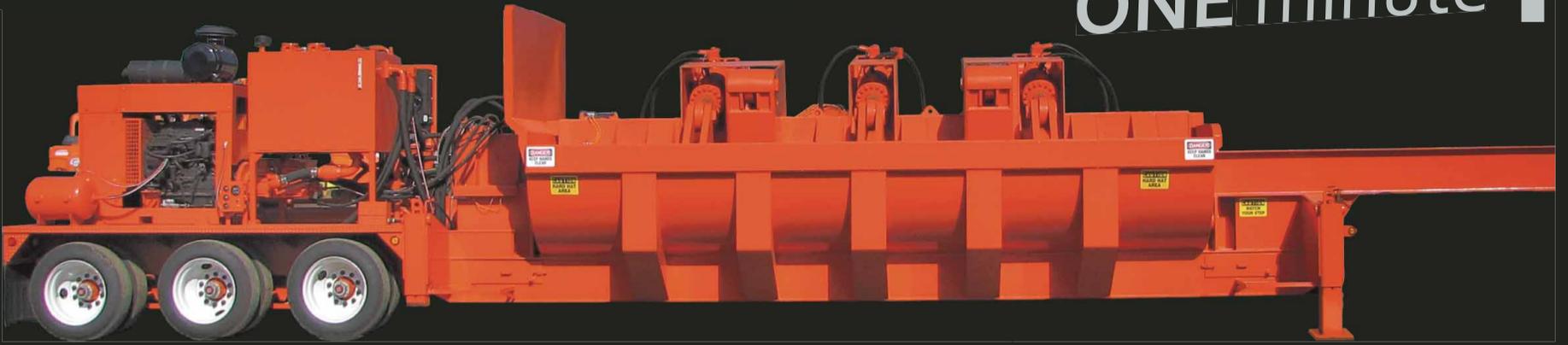
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Hurricane damaged cars flood the market

by MAURA KELLER

mkeller@americanrecycler.com

As Hurricane Harvey and Hurricane Irma wreaked havoc throughout the Texas and Florida regions, they left a tremendous amount of destruction and debris in their wake – including nearly 1 million damaged or submerged cars, with Hurricane Harvey destroying between 300,000 to 500,000 vehicles and Hurricane Irma destroying another 200,000 to 400,000 vehicles.

According to Cox Automotive, the parent company of Kelly Blue Book and AutoTrader.com, the cost of licensed cars lost due to Hurricane Harvey alone (excluding vehicles flooded while sitting in dealership parking lots) falls between \$2.7 and \$4.9 billion.

While the economic impact to hurricane victims is monumental, what to do with the flood damaged vehicles is also problematic to the regions and the recycling industry as a whole. For example, recovering, repairing or junking thousands of cars in a short period of time stresses a system that is designed to avoid the release of toxic chemicals into the environment.

“The biggest challenge dealing with flooded cars is the same as the major issue for all cars in automotive recycling today, and that’s data,” said Scott Robertson Jr., a director of the Automotive Recyclers of Massachusetts and executive committee member of the Automotive Recyclers Association. “Critical informative vehicle data is being withheld from us by the OEMs that we need for identifying and tracking recalled parts. Access to this data would allow the public to easily identify repairs and what parts were installed to repair a vehicle.” Transparent data tracking also would allow the public valuable information in making used vehicle purchases and in repairing their vehicle. Flooded vehicles would be flagged as well as the parts sold off those vehicles and the vehicles that those parts repaired.



Brays Bayou overflowed during Houston, Texas floods, causing even more flood-ravaged vehicles to be on the market.

PHOTO BY FOREVERLEE | DREAMSTIME

As Robertson said, there is not a specific process in handling these thousands of vehicles that temporarily sat in the Gulf of Mexico. The insurance companies try to expedite the claims process after a major disaster. Auction companies call in tow companies from across the country, rent large tracks of land to store the vehicles and hold daily auctions to increase the disposal process.

“Often, in this expedited claims process, vehicles that suffer very minor water damage are totaled out with those that are completely submerged,” Robertson said. As a result, scrap metal yards are seeing an uptick in business, with flooded cars, refrigerators, stoves and metal pieces finding their last home in scrap yards across the Houston and Florida regions. As

expected, the per-tonnage price of scrap metal has dipped since Hurricane Harvey because of the surge in supply.

For the next month, thousands of flooded cars are being stashed at Royal Purple Raceways in the Houston suburb of Baytown because auction sites and scrap yards simply don’t have the storage space. The raceway has offered up its 400 acre facility to serve as a temporary holding, storage and processing facility for tens of thousands of vehicles damaged in Hurricane Harvey.

Areas of Concern

While Robertson is not aware of any modifications to state regulations for the handling of flooded vehicles, the federal government is holding meetings on what guidelines need to be established to handle this large loss of vehicles.

“The Automobile Recyclers Association has been invited to offer opinions in these disasters,” Robertson said.

The biggest area of concern with flood related vehicles for auto recyclers is that they could be sold to an unlicensed facility that would not report to the National Motor Vehicle Title Information System (NMVTIS) and could subject an excessively flooded vehicle to an unassuming customer. NMVTIS is a system that allows the titling agency to reliably verify the information on the paper title with the electronic data from the state that issued the title. NMVTIS is designed to protect consumers from fraud and unsafe vehicles and to keep stolen vehicles from being resold.

See FLOOD CARS, Page B6

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Steel imports up 20 percent year to date

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,051,000 net tons (NT) of steel in September 2017, including 2,438,000 NT of finished steel (down 10.3 percent and 1.4 percent, respectively, vs. August final data). Year-to-date (YTD) through nine months of 2017, total and finished steel imports are 29,663,000 and 22,890,000 NT, up 19.6 percent and 15.7 percent, respectively, vs. the same period in 2016. Annualized total and finished steel imports in 2017 would be 39.6 and 30.5 million NT, up 19.8 percent and 15.9 percent, respectively, vs. 2016. Finished steel import market share was an estimated 27 percent in September and is estimated at 28 percent YTD.

Key finished steel products with significant import increases in September compared to August include reinforcing bars (up 85 percent), line pipe (up 35 percent), tin plate (up 31 percent), oil country goods (up 23 percent) and plates in coils (up 11 percent). Major products with significant year-to-date (YTD) increases vs. the same

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	SEP 2017	AUG 2017	2016 Full Year	2017 Annualized	% Change 2017 Annual vs. 2016
SOUTH KOREA	321	359	3,812	3,932	3.2%
TURKEY	112	106	2,416	2,592	7.3%
JAPAN	169	128	1,798	1,646	-8.5%
TAIWAN	120	122	1,083	1,368	26.3%
GERMANY	151	99	1,192	1,334	11.9%
BRAZIL	107	81	823	929	12.9%
RUSSIA	78	93	310	875	182.2%
CHINA	57	69	862	849	-1.5%
All Others	1,323	1,415	14,043	16,996	21.0%
TOTAL	2,438	2,473	26,338	30,520	15.9%

period in 2016 include oil country goods (up 255 percent), line pipe (up 60 percent), standard pipe (up 45 percent), mechanical tubing (up 32 percent), cold rolled (up 28 percent), sheets and strip all other metallic coatings (up 26 percent), sheets and strip hot dipped galvanized (up 22 percent) and hot rolled bars (up 19 percent).

In September, the largest volumes of finished steel imports from offshore were from South Korea (321,000 NT, down 11 percent from August final),

Japan (169,000 NT, up 32 percent), Germany (151,000 NT, up 53 percent), Taiwan (120,000 NT, down 2 percent) and Turkey (112,000 NT, up 5 percent). For the first nine months of 2017, the largest offshore suppliers were South Korea (2,949,000 NT, down 2 percent vs. the same period in 2016), Turkey (1,944,000 NT, up 5 percent), Japan (1,234,000 NT, down 14 percent), Taiwan (1,026,000 NT, up 36 percent) and Germany (1,001,000 NT, up 6 percent).

Nucor receives supplier certification

Nucor Steel Memphis, Inc. division was certified by Caterpillar Inc. at the platinum level through its Supplier Quality Excellence Process (SQEP). Nucor Steel Memphis is the only steel mill in the world to earn Platinum certification, which represents excellence in process control, continuous improvement, product quality and delivery to Caterpillar.

Caterpillar created the SQEP to recognize those suppliers that demonstrate their commitment to excellence and drive a "zero defects" culture within their organizations. Certification levels include Bronze, Silver, Gold and Platinum, reflected in order of increasing difficulty.

This is the first invitation and certification from Caterpillar for the Nucor Steel Memphis team. Nucor Steel Memphis has supplied Caterpillar with engineered long bar in carbon and alloy grades since 2010 for use in track links, sprocket segments, idlers, ground engaging tools, hammer bits, transmission parts, gears and pins.

Strong numbers boost Seaway iron ore shipments

More than 1.2 million metric tons of iron ore passed through the St. Lawrence Seaway in September, providing a boost to overall shipping tonnage for the Seaway system. The St. Lawrence Seaway reports that overall cargo shipments from the start of the shipping season on March 20 through September 30 totaled 24.3 million metric tons – up nearly 3 million metric tons over the same period last year.

"The resurgence of iron ore shipments from late last shipping season through this year is a good sign for shipping and for the North American

economy," said Bruce Burrows, president of the Chamber of Marine Commerce. With year-to-date tonnage now 14 percent ahead of last year, Burrows adds that "we are optimistic that cargo levels on the Great Lakes and Seaway will top last year's totals."

Overall, iron ore shipments have reached 5.9 million metric tons this year, up about 58 percent from the same time period in 2016. The Seaway is also seeing year-to-date increases in salt (up 39 percent over 2016), general cargo (up 35.5 percent) and dry bulk (up 12.6 percent).

Iron ore shipments have made for a busy year for the Port of Duluth-Superior. "It's the pace of pellets that continues to dominate waterborne commerce in the Port of Duluth-Superior this shipping season," said Vanta Coda, executive director of the Duluth Seaway Port Authority. "Outbound shipments of Minnesota iron ore have hit records not seen in a decade, with this year's throughput outpacing the Port's five-year average by 20 percent."

Iron ore also led the way for the Port of Toledo where shipping tonnage is 42 percent ahead of last year, with nearly all categories of cargo outperforming 2016. "Through September, we handled 342 vessels, which is 52 more than last year," said Joseph Cappel, vice president of Business Development for the Toledo-Lucas County Port Authority. "We are optimistic that this momentum will continue through the fourth quarter and we will reach and hopefully surpass 10 million tons by the end of the year."

Meanwhile, the Port of Cleveland registered a 35 percent increase in international tonnage last month compared to September 2016. "Year to

date, we've seen an 8 percent increase in international tonnage, supported by an increase in non-containerized steel shipments for multiple projects around northeast Ohio," said Jade Davis, Vice president of External Affairs for the Port of Cleveland. "We have also seen a larger number of imported containers moving on the Cleveland-Europe Express and specific project cargo movements of upgraded capital equipment for use in manufacturing plants in our region."

The Port of Green Bay also reported a very busy month of shipping, with 27 vessels carrying more than 320,000 tons of cargo in September. "The total tonnage for September is the best monthly total we've seen since June 2015," said Dean Haen, director for the Port of Green Bay. "The 27 vessels last month is the most in any given month since July 2014. That's a good sign as we head into the final few months of the shipping season."

While year-to-date totals are 4 percent below 2016, Haen is optimistic that the Port of Green Bay can reach, or even exceed, last year's total.

AR EQUIPMENT SPOTLIGHT

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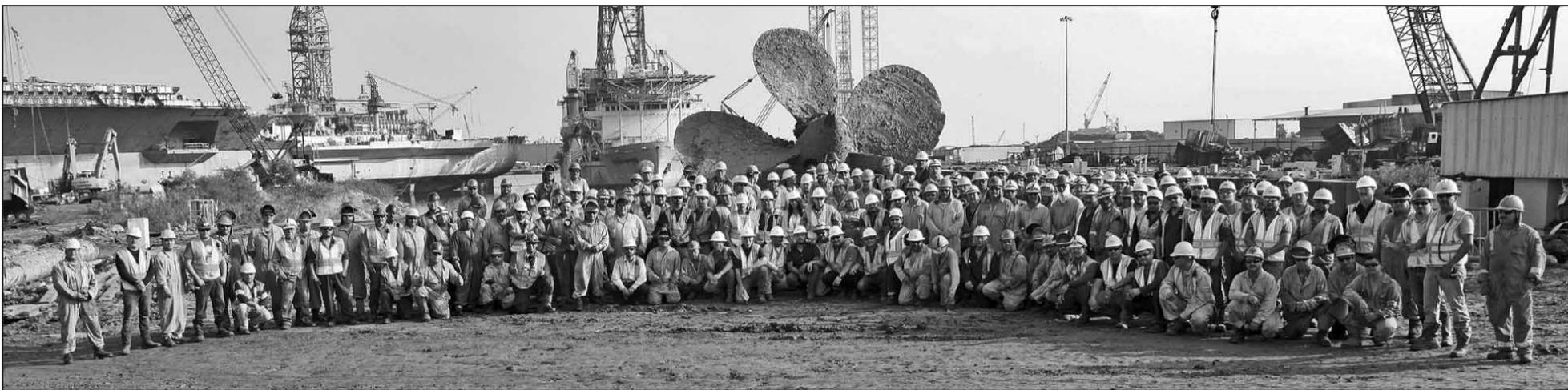


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*find you & yours well
this holiday season!*



EMR completes dismantling of USS Ranger



EMR, a leading metal recycler, has completed the dismantling and recycling of the decommissioned US Navy vessel USS Ranger (CV-61).

Ordered in 1954 and commissioned in 1957, the Ranger was the first U.S. carrier vessel built as an angled-deck ship from inception. She served in the Pacific, the Indian Ocean and the Persian Gulf, and earned 13 battle stars for her service in the Vietnam War. During her 37 years of service, she also appeared in blockbuster films such as *Top Gun* and *Star Trek IV: The Voyage Home*.

After her arrival on July 12, 2015, the Ranger has been carefully dismantled for recycling in Brownsville, Texas, at a state-of-the-art metal recycling yard operated by International Shipbreaking, part of the EMR group. The dismantling project, which has

taken just over 2 years, has recovered and recycled over 56,000 tons of material from the Forrestal-class "supercarrier", with most of the recycled metal recovered sold to be melted down at domestic mills. Some of the repurposed new metals will be used in U.S. Department of Defense contracts.

Remaining recycled materials from the USS Ranger will also be given a new lease of life, as over five tons of historic items from the ship have been donated to the USS Lexington Museum in Corpus Christi, Texas, for display and preservation.

The dismantling project was completed on November 1, 2017, 34 years to the day since a fire occurred inside USS Ranger Main Machinery Room 4 (MMR4), claiming the lives of six U.S. Navy sailors and injuring 35. A moment of silence was held at 9:50am

by the crew at the yard as the final section of the USS Ranger was removed to honor all those who served on the ship. All artifacts from the MMR4 Control Room have been donated to the USS Ranger Association for use in a museum exhibit honoring the six servicemen who perished during the 1983 fire.

The recycling operation has also enabled veterans and military enthusiasts to own a piece of naval history, with a USS Ranger commemorative dog tag being minted from brass and copper recycled from the mighty ship. Engraved flight deck sections are also available for purchase on the company's eBay store.

Chris Green, International Shipbreaking chief operating officer, com-

mented, "The USS Ranger has a distinguished record of service to our country, and we were honored to give her the respectful send-off she deserves. We have a long history of dismantling military vessels, and have invested heavily in our Brownsville ship-breaking facilities to ensure our recycling processes are safe and environmentally sound. Even though the Ranger's journey as a US Navy vessel has come to an end, we're proud that she will continue to serve her country and live on to honor her brave crew."

International Shipbreaking has recently taken delivery of another distinguished military vessel, the USS Independence, following a contract win with the US Navy to dismantle and recycle the aircraft carrier.

Steel industry releases guide to LEED v4 Certification

The Steel Market Development Institute (SMDI) has released a guide to using steel construction products for the latest version of the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) green building certification program. The guide, "LEED v4 for Steel Products Used in Construction Applications," will help construction professionals understand how steel products can earn points toward LEED v4 certification.

"A rapidly evolving green building industry and increasing demand for sustainability have led to a number of updates and a more rigorous certification process in LEED v4," said Mark Thimons, vice president, Sustainability for SMDI. "The new process places an increased focus on material and resource transparency. This new guide for steel construction products will help builders leverage steel's sustainability benefits to meet their certification goals."

Steel has always been well-positioned for credits in categories like recycled content, but LEED v4 offers even more opportunities to earn credits for steel use, across a range of categories, such as:

Materials and Resources

Steel-intensive design truly excels

in this category, which focuses on minimizing the embodied energy and other impacts associated with the extraction, processing, transport, maintenance and disposal of building materials. The requirements are designed to support a life-cycle approach that improves performance and promotes resource efficiency.

Energy and Atmosphere

This category approaches energy from a holistic perspective, addressing energy use reduction, energy-efficient design strategies and renewable energy sources. Steel framing can provide the building block for truly energy-efficient designs, while steel cladding products can help create exceptionally tight building envelopes. Additionally, steel roofing provides an excellent platform for photovoltaic systems to earn Energy and Atmosphere credits.

Sustainability Sites

Construction professionals can earn Sustainable Sites points by using steel roofing products to reduce heat island effects and prefabricated steel products to reduce on-site construction times.

For a direct link to download the guide, view this article on www.AmericanRecycler.com.

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EQUIPMENT SPOTLIGHT

Auto Balers, Loggers, Crushers

by MARY M. COX

maryc@americanrecycler.com

With the abundance of natural disasters the nation has witnessed this year, recyclers that use automobile balers, crushers and loggers may find themselves busier than ever, processing unwanted material.

"The C&C MFG 580 Car Logger is the most productive car logger in the industry. This is a versatile tool for the scrap recycling industry, capable of baling both ferrous and nonferrous material in a scrap metal yard as well as logging cars at an auto salvage facility. The portable, one-man operation can easily travel as well, to assist in the clean-up of natural disasters. The machine is capable of processing 20 to 25 whole car bodies per hour and 15 to 20 tons of miscellaneous loose sheet tin per hour," Curt Spry, sales manager stated.



C&C Mfg.

The logger features include a 10'x19' chamber capable of handling a full-size van with ease. A comfortable climate-controlled cabin with Bluetooth stereo and an exclusive monitoring system provides operators with instant control of hydraulic pressure & throttle speed. "The 580 also features redesigned high strength lids which have been thoroughly proven in the field, during our most demanding applications. It has also been proven in lab simulations, using linear structural FEA (finite element analysis) analysis. We're no newcomer to the industry. Our sister company, C&C Machining, is located in Centerville, Iowa and that firm has provided quality parts and large precision machined weldments to Al-Jon for use in its scrap products division for over 22 years. I am a veteran in the scrap

industry, including my 22 years as sales manager at Al-Jon. Also, C&C parts and service personnel serve our clients using their over 60 years of combined experience in the industry," stated Spry.

John Kitchens, vice president, said that Iron Ax owns and operates six scrap yards in the state of Georgia and the firm has been in the scrap business for almost 50 years. He added, "Over 25 years ago, we started making products for our own use in our scrap operation. It was a natural transition to introduce our products in the marketplace. We know the scrap industry because we are in the same business that our customers are. We know what they need to get the job done, and it gives us a very unique perspective that our customers seem to really appreciate."

Iron Ax manufactures a 20' and a 16' baler. Both units can be equipped with a crane but standard build for inventory consists of a 20' baler with no crane. "If a customer wants a baler with a crane we can certainly accommodate them. Our machines are heavy duty and built to last. They all feature remote control and automatic cycle and our balers offer a high speed baling cycle – it is approximately one minute long. Baler hydraulic pressure can be adjusted at the touch of a button. The benefit of having adjustable pressure is that you can make either a tight or a loose bale with our machine. Set up time for our baler is minimal. Our unit is designed to increase production and efficiency all the way around. After the baler is unhooked from the truck and the outriggers have been lowered, the machine is ready to process. Set up only takes a matter of minutes," explained Kitchens.

He said their product is popular for a number of reasons: "One reason is the fact that our company is stable. We have had the same ownership since day one. When customers call they are talking to the same staff they have been talking to for over 20 years.

When it comes to service, our customers know that we are there for them."

Iron Ax has seen baler sales continue to improve, year after year as yard owners realize the need for a baler. "With a car crusher you are limited to crushing cars. With a baler a user can process cars, white goods, loose iron, etc. A baler is a versatile machine that can actually open up new streams of scrap. Many customers have discovered that they can purchase more material or even different types of material than they could prior to using a baler, and they are now able to process the materials with ease," Kitchens said.

"The portable E-Z Log Baler made by RM Johnson produces a bale in a fast, neat manner. After a fluid level check, it is ready to go and an operator can move the grapple crane up to 400°, reach out 23' and lift 2,000 lbs." explained Dave Van Vleet, sales manager. The company offers three other logger models as well. By selecting the metal type and volume of each bundle, a user can produce log bales to fit the requirement of the desired market and the E-Z Log Baler can operate from the control platform. The unit can be moved to the same location as the scrap that must be processed.

"Even expensive machines are worthless if the final product can't be shredded. Our innovative hydraulic compression sequence solves this problem. Once the loose scrap is loaded into the baling chamber, the E-Z Log Baler 'rolls' the scrap. An interwoven, low density bundle of about 35 lbs. per cubic foot is the result. Rolling the material, as opposed to mere compressing, produces a log that will stay together even when dropped. Yet the rolled logs remain loose and low density enough for a 1,500 hp shredder to easily process them," noted Van Vleet.

He claims the simple but unique design of the machine, with easily



Iron Ax

accessible components, aids trouble-free operation and servicing. He added, "Fewer moving parts and smaller hydraulic cylinders produce a better bundle at a lower processing cost than other loggers. All of the hydraulic cylinders are manufactured with high-grade seamless polished

See SPOTLIGHT, Page B5

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Spotlight

■Continued from Page B4

steel at our own factory. All E-Z Log Balers also use standard parts and components. Operating instructions are provided by our trained specialists and baler options include stationary or portable; diesel, gas or electric engines. Custom designs and specifications are also available.

“Sierra International Machinery is the highest production car logger in the world and our RB6000 car logger/baler has set the standard for production,” Jose Pereyra, general sales manager, asserted. The RB6000 is a mobile machine which comes in two options: The original RB6000, a “big brother” to the RB5000 car logger/baler, is mounted on a three-axle trailer which can be transported quickly and easily from site to site. The RB6000-SL is an alternate self-loading version of the standard RB6000. The machine is equipped with hydraulic legs that lift and lower the unit, making it possible for a lowboy trailer to be backed underneath it for easy transport.

The RB6000 boasts a large 20' by 8.5' folding box that can log any automobile, even full size vans and SUVs. In addition to logging cars, the RB6000 can also make short work of white goods, tin, clips, and sheet iron. The power for the RB6000 is generated through a Cummins six-cylinder turbo diesel engine. Pereyra noted, “This engine is strong and capable of generating enough torque to handle the toughest of jobs. In addition to the Cummins



The RM Johnson Co., Inc.

engine, the RB6000 utilizes Rexroth hydraulics to create a maximum operating pressure of 4020 PSI.”

The power generated by the machine is utilized to drive two main compression rams and six folding door rams. Each of the main compression cylinders applies a force of 170 tons for a total of 340 tons of main compression force. Each of the folding door rams, three per side, apply 88 tons of force for a total of 264 tons of force per side. These forces, coupled with the curved door design of the folding box, ensure tight and compact logs and bales. The log size produced by the RB6000 is 40 x 24” x variable in size, at an average density of 25 to 35 lbs. per cubic foot and an average weight of 1,200 lbs. The bales produced are 40 x 24” x variable in size, with an average weight of 850 lbs.

“When logging white goods and tin the RB6000

can produce upwards of 27 tons per hour. When logging automobiles, it can produce up to nearly 50 tons per hour. The RB6000 production is the highest among car loggers on the market today. Each and every part on it is designed for longevity so repairs and equipment life will not be a constant concern. Sierra is committed to customer satisfaction and is proud to stand by our long, distinguished record of service,” said Pereyra.

The RB6000 comes standard with a full functioning crane, capable of working independent of the baler, and has continuous rotation capabilities. The boom length is 26’3” and it has a 5,000 lb. capacity when fully extended. Rexroth hydraulics are used on the crane as well, to ensure that power is never an issue. The crane comes standard with a four point, extremely sturdy grapple, designed specifically for working with automobiles.



Sierra International

New Day closes on purchase

New Day Aluminum Holdings LLC disclosed that its Dutch subsidiary has closed on the acquisition of all the share capital of ARC Fused Alumina from Mircal SA, a subsidiary of Imerys SA fully and directly owned by it.

Mircal was required by the European Commission to divest this business as a condition to its 2016 acquisition of certain assets from Alteo Holding. The New Day transaction received European Commission approval in September and has now completed all other closing conditions, including consultative proceedings with the company’s Works Council.

ARC Fused Alumina, located in La Bâthie, France, employs over 150 workers and operates facilities producing a number of specialty alumina products, including white fused alumina, bubble alumina, Abral® and silicon nitrates. The company’s products have multi-application uses in the ceramics, flooring, abrasives and refractory industries.

David D’Addario, chief executive officer of New Day, commented, “We are pleased to welcome the ARC Fused Alumina business and its employees to the New Day family, and excited for the opportunity to build upon the rich 120-plus year history of the La Bâthie based business.

This acquisition helps diversify New Day’s portfolio, both geographically and in product mix. La Bâthie provides us entry into a new market sector while better positioning New Day for more acquisition activity and integration on a global scale. “

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Import market share 26 percent in October

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of October totaled 3,110,000 net tons (NT). This was a 0.8 percent increase from the 3,084,000 permit tons recorded in September and a 0.3 percent decrease from the September final imports total of 3,118,000 NT. Import permit tonnage for finished steel in October was 2,419,000, down 3.4 percent from the

final imports total of 2,504,000 in September. For the first 10 months of 2017 (including October SIMA permits and September final data), total and finished steel imports were 32,841,000 NT and 25,375,000 NT, up 19.4 percent and 15.1 percent, respectively, from the same period in 2016. The estimated finished steel import market share in October was 26 percent and is 27 percent year-to-date (YTD).

Finished steel imports with large increases in October permits vs. the September final included steel piling

(up 159 percent), tin free steel (up 45 percent), structural pipe and tubing (up 32 percent), cut lengths plates (up 25 percent), plates in coils (up 20 percent), hot rolled bars (up 17 percent) and standard pipe (up 13 percent). Products with significant year-to date (YTD) increases vs. the same period in 2016 include oil country goods (up 231 percent), line pipe (up 61 percent), standard pipe (up 44 percent), mechanical tubing (up 34 percent), structural pipe and tubing (up 29 percent), cold rolled sheets (up 26 percent), hot rolled bars (up 24 percent), sheets and strip all other metallic coatings (up 23 percent),

and sheets and strip hot dipped galvanized (up 16 percent).

In October, the largest finished steel import permit applications for off-shore countries were for South Korea (326,000 NT, down 1 percent from September final), Turkey (136,000 NT, up 13 percent), Germany (135,000 NT, down 12 percent), Brazil (91,000 NT, down 17 percent) and Japan (91,000 NT, down 46 percent). Through the first ten months of 2017, the largest off-shore suppliers were South Korea (3,282,000 NT, up 0.4 percent), Turkey (2,089,000 NT, up 1 percent) and Japan (1,326,000 NT, down 16 percent).

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Don't create a solution for a problem that doesn't exist

The first article in this series listed more than 25 tactics to increase your business success, all of them based on my experience. I started with nothing and didn't attend college, so I know you can achieve maximum success, regardless of your education. Each of the articles, after the first, takes a closer look at one of the tactics recommended.

Too often, we create solutions for problems that don't exist or that aren't material. You know how you hate that one clause in your loan agreement with the bank or that one stupid rule that you encounter in your favorite store? You aren't the only one irritated because someone decided to solve a problem that wasn't really a problem, and did so without considering how a new rule would irritate customers or prospects.

Putting in unnecessary rules is a great way to lose customers. When I go to lunch, I often order ahead to save time. Not far from my office is a very good Mexican restaurant. I am a lunch-time regular; or, at least I was, until the owner decided he would no longer take call-in orders for patrons dining in. The hostess insisted she couldn't take an order until I was there in person.

I asked her why the restaurant had changed its policies. She said, "Sometimes the person who calls ahead never shows up." Although I can appreciate the frustration of a no-show, the restaurant owner is solving a problem that really isn't significant.

The no-show was probably one among many paying customers who order ahead; for sure, he or she was only one of the hundreds or thousands of patrons the restaurant serves every month. The restaurant also began to require prepayment on all to-go orders. One customer out of

one thousand had stiffed the restaurant owner, and he responded by inconveniencing a great many of his remaining customers to prevent a small loss.

For the restaurant, of course, the most likely real result is that some clients decide to take their business elsewhere, and the new rules cost the business many times more than just accepting the rare no-shows.

Whenever you contemplate adding a new rule in your business, ask yourself whether the problem you are solving warrants the rule. Before you add a rule, consider whether it makes you easier or harder to do business with, and what the change may cost you.

Years ago, I used to compete against some auto recyclers who would not take credit cards or checks because they were afraid of not getting paid for parts. In my service area, I took cards and was one of the first yards to take checks (I know, I am dating myself to the Stone Age). Yes, I occasionally got burned, but the extra business I gained more than made up for the tiny losses from very rare bad checks.

Of course, nowadays, every yard will take cards and more people pay using their phones than pay by check, but you get the point: As business owners, we need to stay focused on customer experience and stay focused solving the problems that really influence results. Pick your battles.

When you are facing a problem, think about whether it is really worth adding a rule or rethinking a process to prevent something that happens rarely and isn't significant. Don't create rules that make it harder to do business or solve problems that really aren't problems at all.

Flood cars

■Continued from Page B1

"These same unlicensed facilities are not regulated and often do not follow the proper end of life procedures prior to scrapping the vehicle – causing environmental damage," Robertson said.

Industry experts are warning that many previously flooded vehicles are being recycled into the economy and are being resold. Often flood-damaged cars are reported to insurance agencies and, through an assessment process, the buyer receives compensation to cover their loss. While many flooded vehicles are then sent to the auto recycler for dismantling, other vehicles are labeled by state agencies as flood damaged and a salvage title is assigned. Once identified, flood damaged cars can re-enter the sales market via dealer lots with "for sale" signs prominently displayed.

According to Frank G. Scafidi, director of public affairs, National Insurance Crime Bureau (NICB), from NICB's perspective, flood vehicles represent a huge potential for fraud.

"As we saw after Katrina, thousands of flood vehicles made it back on the market. Mostly, when the parties are aware of the vehicle's flood condition, there is nothing improper about buying and selling them," Scafidi said. "We are more concerned with the unsavory types out there who see an opportunity to scam some innocent party by acquiring a flood vehicle and reselling it without informing the buyer that they are buying a rolling threat to their financial and physical security."

Complicating the future of these cars is that each state has its own standards for what's considered salvageable. What's considered salvageable in one state may pose issues in another. So insured vehicles are going to be processed and disposed based on the prevailing law within the state where the vehicle is registered. Typically, insurance companies contract with salvage operators to collect and store those vehicles until the titles are all updated. Most of them are parted out and many others are just crushed. Many, still, are sold at auctions where someone with skill might be able to rebuild a flood car and enjoy years of

trouble-free operation. That's all quite legit.

"NICB just wants the public to beware that they can get scammed if they are blinded by a very attractive price for a used vehicle that they have seen priced much higher," Scafidi said. "And these deals are usually made over the Internet or through some word-of-mouth notice."

And it was out of that concern that in 2005 NICB created the "flood vehicle database" now called VINCheck. It's a free service to anyone and it will advise if a VIN that a consumer queries was ever deemed a total loss, salvage, or is an unrecovered stolen. It is not 100 percent of insured vehicles because it is up to the insurance companies to decide whether or not they wish to participate with VINCheck. Most do and of those, they write around 88 percent of the auto policies in force.

"Not perfect, but the best VIN search out there – for the price," Scafidi said. "Plus, the data is available in real time – as soon as a company uploads a salvage or total loss record, it is available to a VINCheck query."

As with any large purging of vehicles from an area, there are near term and lasting effects to the automotive recycling industry. As Robertson explained, near term, it offers access to a great number of vehicles that the industry can add to its inventory to either sell or part out.

"Long term, it removes a huge number of vehicles that might be repaired with used auto parts," Robertson said. "And it replaces them with new vehicles that are under warranty and might not be repaired with a used auto part. We experienced this with the Cash for Clunker program." Formerly known as the Car Allowance Rebate System, this \$3 billion federal program was a direct competitor to salvage yards that wanted the scrapped cars for parts. The program, which ended in 2009, intended to provide economic incentives to U.S. residents to purchase new, more fuel-efficient vehicles when trading in their older, less efficient vehicles. The "clunkers" had to be destroyed under the federal program, so salvage yards couldn't keep any part.

Remember, only you can make BUSINESS GREAT!

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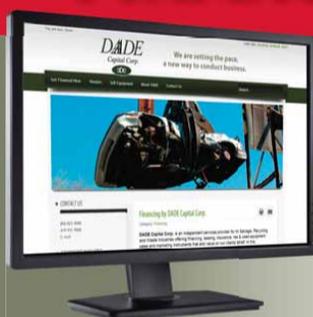
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