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C&D recycling industry expands



WHAT'S INSIDE

- Companies to take part in a safety stand down effort. Page A7
- Duke Energy to use animal waste in conversion facility. Page A10
- Antidumping order hits steel imports from seven countries. Page A14
- GM recycles water bottles to make Chevy Equinox parts. Page A16
- Construction employment rises steadily. Page B3

Events Calendar..... 4
 Scrap Metals MarketWatch..... 14
 Industry Profile: A Closer Look.... 16
 AR Classifieds..... 20
 Equipment Spotlight..... B4
 New Product Showcase..... B6

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Rubber recycling: A growing industry

by MAURA KELLER

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After the scrap tire industry experienced a downturn in 2009 until 2011, there has been a resurgence of sorts for recyclers and end users alike.

According to Mike Hinsey, international vice president at Granutech Saturn Systems, domestically the tire recycling market is very mature with most established firms expanding capacity to meet growing demand.

“There is also growth in processing of the non-traditional tires, the large OTRs (over the roads),” Hinsey said. “To meet this demand in mining regions of the world, larger more powerful shredders are being produced.”

Internationally there is significant new growth in regions with little established tire recycling process capacity. These regions are seeking smaller capacity systems while still producing fine powders.

As Hinsey explained, manufacturers are meeting this demand by reducing process steps, and having more manual functions. The fine powder can be produced in machines such as the G-4X mill with the new roller bearing design that allows larger product to be fed to the mill while making 30 mesh and smaller material.

And for the most part, the tire recycling industry is looking for increased system capacity, and making finer products, while reducing system and operating costs.

“Manufacturers are responding with more powerful shredders and grinders, such as the Super 80 Grizzly, that can process over 200 tons per day, and allow some operational steps to be eliminated so the plant cost and energy requirements are actually reduced from where we were 5 years back,” Hinsey said.

Historically Speaking

According to the Rubber Manufacturers Association, in 1990, only 11 percent of tires were consumed on a per tire basis. In 2013, end use markets consumed 95.9 percent by weight of the scrap tires generated in the U.S. Since 2011 the percentage of scrap tires consumed by markets increased 12.9 percent, while the volume of tires utilized increased by about 418 thousand tons.

“In excess of 90 percent of all tires are collected in the U.S., which means the industry is strong, as tire sales have picked up due to the strengthening economy,” said Charlie Astafan, general manager at CM Tire Recycling Equipment.

Keith Sacks, vice president of Rubberecycle, manufacturer of rubber mulch and residential surfacing products made from scrap tires, explains that more and more products both in and out of the recreation market are growing as the



PHOTO COURTESY OF ECO GREEN EQUIPMENT

industry continues to grow both in commercial and residential areas.

“Tire recycling technology has really made the process easy and efficient and is taking off and being used in many different ways,” Sacks said. “Recycled tires are being used for playground safety, landscaping, horse tracks, obstacle courses and even as bullet traps for ballistic courses. And many states have recently started to look at recycled tires as a way to repave roads.”

Tire recycling is a strong industry with incredible room for growth. As such, some processors are seeking higher capacity while reducing their operating cost per ton. While they face increased product demand there is also product price pressure.

According to Sacks, the benefits to the environment as well as the recycling industry are proving that we can be more innovative and open minded with how and what we recycle and do a better job of creating sustainable recycling. Today’s tire recyclers have to focus more on educating people about rubber recycling.

“In recent years, we have faced many erroneous claims of tire rubber being harmful to users and the environment,” Sacks said. “All of these claims have been consistently refuted with facts, data, and credible studies that prove rubber recycling is safe. Unfortunately, people still find it hard to trust inorganic recycled materials. Hopefully when the current government study is completed it will do a better job of convincing people that rubber recycle is not only safe for the environment and personal health, but also an important step in us learning how to recycle and create a more sustainable world.”

In addition, government regulations are continuing to impact the tire recycling industry. There are various different government agencies and regulations that

rubber recyclers have to work with, which vary by state. Additional regulations come into play depending on what the recycled rubber is being used for, such as playground safety.

For Astafan, focusing on markets should be imperative for tire recyclers.

“Markets have always been challenging for tire recycling,” Astafan said. “The business tends to be geographical therefore you must balance your incoming flow of tires with the available markets that you have reasonable access to.”

So what are the biggest trends facing the scrap tire industry? According to Jon Maly, sales manager at Eco Green Equipment, one of the key trends is higher quality TDF (tire derived fuel) chip production that is moving towards the wire-free market.

“This is due to the increased BTU value per ton with the steel removed from rubber,” Maly said. “Also, it reduces the material handling challenges processors face with steel in the rubber. Users, such as industrial boilers, prefer wire-free TDF.”

Maly added that more companies are focusing on cleaner, 30 mesh minus production for secondary uses.

Technology Inroads

Recent machinery designs have allowed processors to achieve higher capacity production than has ever been achieved in granulate production. As Hinsey explained, while there has been high shredding capacity for some time, the ability to produce a steel free product, such as a mulch material where the steel has been separated, has only come to the market in the last four to five years.

“The 10 ton per hour grinders have provided operators a way to reduce their costs and allowed them to produce a low steel fuel quality product at a profitable price point,” Hinsey said. “For powder

See RUBBER RECYCLING, Page 6

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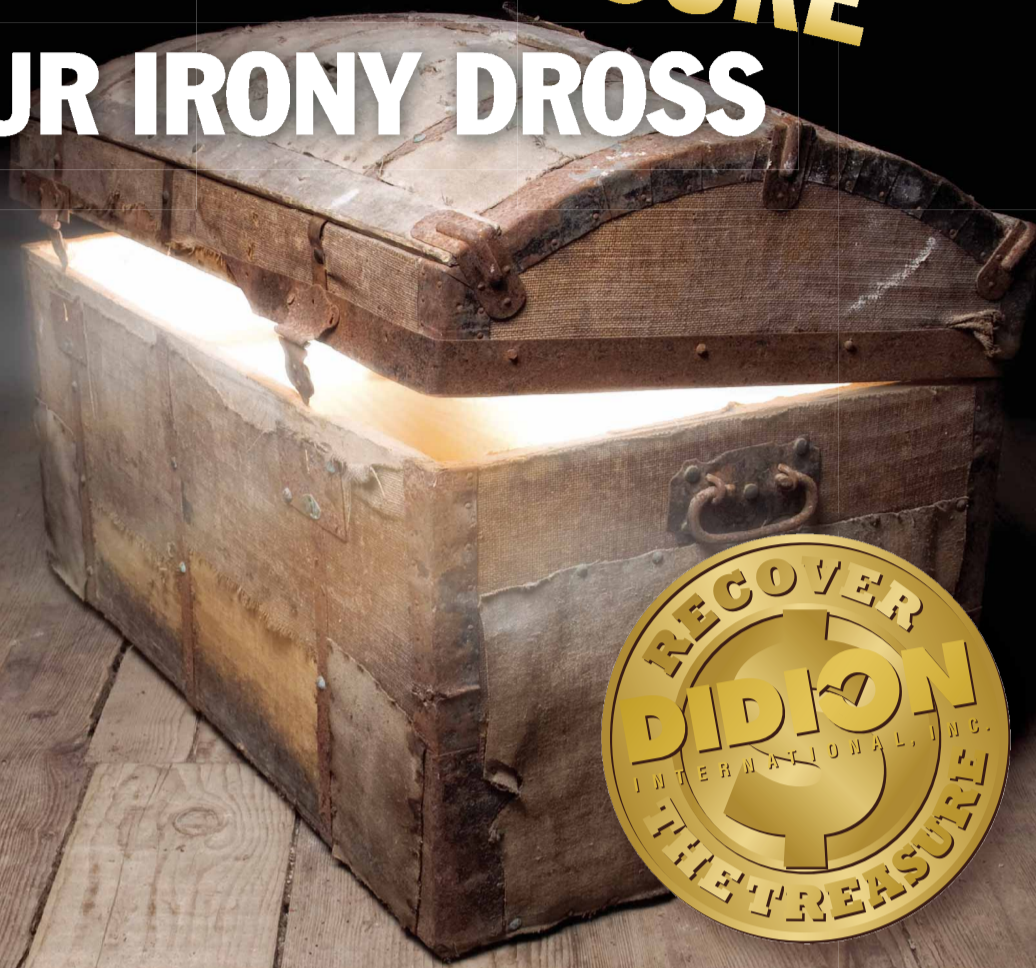
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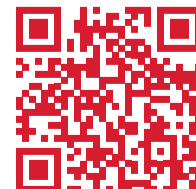
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Massachusetts launches textile recycling initiative

Each year, Massachusetts residents throw away 230,000 tons of textiles, while 95 percent of this waste can be recycled or reused in some manner. The Secondary Materials and Recycled Textiles Association (SMART), Council of Textile Recycling and Massachusetts Department of Environmental Protection launched a statewide textile recycling initiative in Massachusetts to encourage residents to reduce the amount of clothing and other textiles they throw away.

Municipalities across the state will promote textile recycling at the community level. Local recycling coordinators will facilitate textile collections and educational events throughout the year to raise awareness of textiles as a household recyclable. While textile items cannot be placed in curbside collections with other household recyclables, for-profit, thrift and charitable organizations alike accept donations and begin the textile recycling process. These organizations accept any

fabric-based items that are clean and dry, including unwanted and damaged clothing, towels and linens, footwear, belts, hats, accessories, handbags, pillows, stuffed animals and more.

According to SMART, approximately 45 percent of textiles in the recycling stream are reused as secondhand clothing, both in retail storefronts and in mass in developing countries. Another 30 percent of textiles are converted to industrial rags by companies like SMART member, ERC Wiping Products in Lynn, Massachusetts. The remaining 20 percent is sent to textile converters that remanufacture textile fibers into other products, such as automotive and housing insulation, carpet padding and sound dampening products.

“The EPA estimates more than 14 million tons of textiles are thrown away each year in the U.S. and less than 16 percent is recovered from landfills for recycling or reuse,” said SMART president Eric Stubin.

Samsung Electronics awarded

The Institute of Scrap Recycling Industries (ISRI) awarded Samsung Electronics America as the recipient of the 2016 Design for Recycling® (DFR) Award for the use of environmentally-conscious materials and advanced recyclable design in its 2016 curved full HD TV. The DFR Award is ISRI’s most prestigious award, given annually to the most innovative products designed with recycling in mind. ISRI recognizes steps made by manufacturers that have actively incorporated DFR principles into products and processes.

The 2016 curved full HD TV incorporates easy-to-disassemble, snap-together parts that are made with minimal chemical content. The snap closures eliminate the use of many screws, making disassembly easier. As a result, this television should take less than ten minutes to disassemble. To further Samsung’s efforts to create an eco-conscious product, the company has improved the sustainability of the TV’s design by substituting conventional plastic with a novel material produced from greenhouse gas.

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Connecticut companies settle EPA claims

Two Connecticut companies, a scrap metal recycling facility and a waste oil transporter, agreed to pay fines to settle claims by the U.S. Environmental Protection Agency (EPA) that they violated federal laws regarding toxic substances in their handling of polychlorinated biphenyls (PCBs). In addition, as part of the settlements one company will clean up PCB contamination and the other has voluntarily changed operations to reduce the chance of contaminating waste oil shipments with PCBs.

G&S, a scrap metal recycling facility in South Windsor, Connecticut, will clean up an on-site lagoon that became polluted with toxic chemicals, and paid a penalty of \$22,500, settling EPA claims that it violated the federal Toxic Substances Control Act (TSCA).

Connecticut Oil Recycling Services in Middletown, Connecticut, a waste oil transporter and recycler, paid \$20,000 to settle an EPA claim that it failed to prop-

erly prepare a hazardous waste manifest for waste containing PCBs when transporting waste that included PCBs.

G&S, located in South Windsor, buys and consolidates scrap metals, which it sorts inside the building or on concrete pads to reduce the chance of soil contamination. A system of oil/water separators and retention ponds are designed to capture any contaminants. The federal Clean Water Act permit issued to G&S requires the company to periodically sample discharges for PCBs. G&S conducted the required sampling and detected no PCBs in 2012 or 2013. In 2014, sampling found PCBs in surface water and sediments. On discovering this, G&S started a cleanup and has submitted a cleanup plan to deal with the remaining contamination.

Connecticut Oil Recycling Services, in Middletown, picked up waste from a customer and transported it to Active Oil, an oil processing facility in New Haven, Connecticut, for disposal or recycling.

Neither the company nor its customers who provide the oil did sampling for PCB contamination. In April 2015, Active Oil found PCB contamination in its storage tank which was traced back to a shipment made by Connecticut Oil Recycling Services. EPA alleged that the company violated TSCA by failing to properly prepare a hazardous waste manifest for waste containing PCBs in a shipment on April 13, 2015. By adding PCB-contaminated waste oil to its tanker truck, combining it with waste oil collected from other customers, and then adding it to a tank at Active Oil, these actions led to the PCB contamination of about 15,000 gallons of waste oil.

The Bill of Lading that Connecticut Oil Recycling Services issued when it transported a tanker truck load of waste oil to Active Oil was not a proper hazardous waste manifest because, among other things, it did not identify the shipment as containing PCB waste.

Five sites be added to Superfund priorities list

The U.S. Environmental Protection Agency (EPA) shared that five hazardous waste sites are being added to the National Priorities List (NPL). The EPA also proposed that eight other hazardous waste sites be added to the NPL. One of the sites now being proposed is North 25th Street Glass and Zinc in Clarksburg, West Virginia. Contamination from past industrial practices at this Harrison County site could pose public health and environmental risks.

The NPL is the list of hazardous waste sites in the U.S. eligible for remedial action financed under the federal

Superfund program. The NPL is intended to guide the EPA in determining which sites warrant further investigation and cleanup.

From 1899 through 1989, glass was manufactured at North 25th Street Glass and Zinc, and from 1911 to 1924, zinc ore was processed creating a legacy of hazardous waste. Lead, arsenic and zinc are in soils on the property and in the ground water and sediments in the nearby West Fork River.

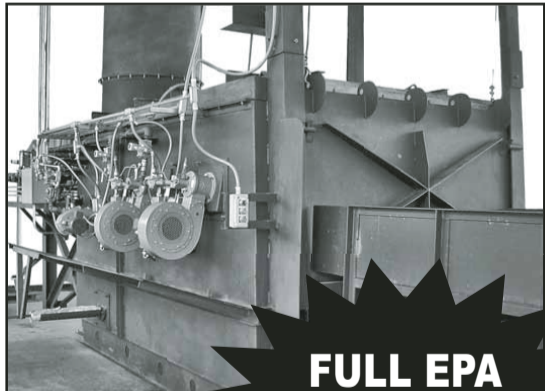
The site is currently owned by Harrison Warehouse Services Company, Inc. and is being used as a storage area for

recycled paper for a pulp facility, and an automobile repair service. A large, zinc slag pile on-site contains lead, is accessible to the public, and is eroding into the West Fork River. The site is also accessible by bike from a rails-to-trails bike path.

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Events Calendar

May 1st-3rd

C&D World. Double Tree by Hilton, San Jose, California.
630-585-7530 • www.cdrecycling.org

May 15th-18th

The Federation of New York Solid Waste & Recycling Conference with Trade Show. The Sagamore, Lake George, New York.
518-541-2548 • www.nyfederation.org

May 16th-19th

AISTech 2016, The Iron & Steel Technology Conference and Exposition. David L. Lawrence Convention Center, Pittsburgh, Pennsylvania.
724-814-3000 • www.aist.org

May 16th-17th

NRRA'S 35th Annual Northeast Recycling Conference & Expo. Radisson Hotel, Nashua, New Hampshire.
800-223-0150 • www.nrna.net

May 18th-19th

13th Annual CARE Conference. Hyatt Regency, Greenville, South Carolina.
706-428-2127 • www.carpetrecovery.org

May 23rd-25th

SWANA's North American Waste-to-Energy Conference 2016. Marriott Tampa Waterside, Tampa, Florida.
800-467-9262 • www.swana.org

May 23rd-26th

American Wind Energy Association's Windpower 2016. Ernest N. Morial Convention Center, New Orleans, Louisiana.
202-383-2500 • www.windpowerexpo.org

June 6th-9th

WasteExpo. Las Vegas Convention Center, Las Vegas, Nevada.
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University commended for food waste reduction

The U.S. Environmental Protection Agency (EPA) presented the University of Arizona with an award for outstanding efforts in food recovery. The students, food service staff and university leaders, along with the Tohono O'odham Nation's San Xavier Co-operative Farm and the City of Tucson worked together to increase food recovery by 1,232 percent from 2013 to 2014. Last year, the partnership diverted 3.4 million pounds of food waste, landscape debris and manure from the landfill.

The ASUA Compost Cats started with a student proposal to do something better with food scraps from the student union than send them to the landfill. In only five years, a simple student idea grew into a tri-institutional partnership program. Over the past five years, approximately 10.4 million pounds of material have been composted.

Through innovation and hard work, Food Recovery Challenge participants and endorsers have diverted over 606,000 tons of wasted food, including over 88,500 tons donated to feed people, from landfills.

Rubber recycling

■Continued from Page 1

production, the enhancements in mill technology are allowing processors to make smaller powder at higher production rates than had even been achievable."

Technology and equipment also have allowed the industry to improve its processes. Over the past 20 years the equipment enhancements have benefited the industry in numerous ways.

"A number of years ago processors were predominantly using equipment from the general waste and plastics industry for processing tires," Astafan said. "Today more and more equipment manufacturers are developing equipment specifically for tire reduction and separation. These machines are much heavier and can withstand the wear and tear of tires with their reinforced steel."

Rubbercycle has made many in-house improvements to further enhance the equipment's capabilities and output that have greatly changed our production over the past 17 years," Sacks said. "Through technological advancements, we are able to remove all of the metal within the tires, as well as wash, mulch, and paint the rubber."

In addition, Astafan stressed that tire recyclers need to pay specific attention to their processing plants, including storm water run-off and air quality. And pay specific attention to the market's air emissions

regulations regarding the burning the solid waste and other solid fuels such as coal.

"I also would pay close attention and become actively involved in the issues surrounding the field turf," Astafan said. "This issue could be significant to this market as well as others, even though it is unfounded and not based on facts or science. Also any regulations regarding the sale of used tires could cause a serious impact to the industry."

Growth Potential

The tire recycling is growing and looking promising. According to Maly, major markets such as wire-free mulch continue to grow year after year. Other markets for crumb rubber and smaller sizing are also growing as the demand for secondary products and uses such as plastic blends, molded products, and industrial applications continue to grow.

"Several areas for secondary markets are growing," Maly said. "Markets such as pour in place, rubber/plastic blends, rubber modified asphalt and general industrial and construction products/fills, are all on the upswing. New uses for secondary rubber uses also are being developed every month."

Of course, growth potential within the tire recycling industry is directly related to access of tires and the access to markets.

"Also there has been a lot of activity in pyrolysis in the past three to four years," Astafan said. "If there are advancements in this technology this could be a disrupter to the industry." Pyrolysis is a method used for recycling used tires whereby the tires –

either whole or shredded – are subjected to heat in an oxygen-starved atmosphere. The result is tires that are converted to oil, gas, and carbon char to be used as fuel.

Once the government agencies finalize their report on rubber recycled material, experts expect the growth of the industry should be 10 percent plus per year. Even now there are many states and areas looking to use recycled rubber in new and innovative ways, such as rubberized asphalt.

"Once the claims of toxicity are more clearly debated, the industry will have a clear and strong path forward," Sacks said. "I also think more and more industries will find new and innovative ways to use recycled rubber. Recyclers and environmentally-friendly agencies can use the success of tire recycling to push new and innovative recycling opportunities."

"There is a tremendous amount of room for growth in tire recycling," Sacks said. "Around 300 million scrap tires are discarded yearly in the U.S. alone, which means there are many tires to go around. The only thing recyclers need to know is that tires need to be thoroughly cleaned and have all metal removed from them."

Astafan believes that unless there is a disruption to the status quo with regulations, tire design or new potential markets for the materials derived from ground tires, he expects to see slow growth throughout the industry.

"As competition continues to increase, there also will be a continued trading of market share between processors, with some processors expanding and some processors going out of business due to the competitive pressures," Astafan said.

While there is high demand for rubber modified asphalt regions of the U.S. and overseas, there is increasing demand for this small rubber powder and there appears to be a steady but slow growth market segment, especially in the international field.

"As for concerns, the recent health debate on sports fields using recycled rubber, which basically ignores numerous scientific studies, is causing some contraction in the industry," Hinsey said. "To address this there are additional studies being conducted and coordinated efforts are being made on behalf of the industry to make certain that factual data and not gossip is the basis for policy decisions.

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Companies to take part in a safety stand down effort

The National Waste & Recycling Association (NWRA) launched its second safety stand down with an emphasis on keeping collection workers safe during hot weather. Through this effort, NWRA is equipping participants with guidance and tools on water, rest and shade as preventative measures to protect the health of industry workers as temperatures begin to soar in summer months.

The 2016 NWRA Safety Stand Down on Water, Rest and Shade launches on May 16 with a weeklong training and awareness initiative focused around reducing heat-related illness and injuries, a common challenge for industries where workers spend considerable time outdoors. This NWRA Safety Stand-Down will include a daily focus on safety issues related to keeping cool, hydrated and healthy in warmer weather and will conclude on May 20, 2016.

NWRA has made safety its top priority, a pledge shared by its member companies. This Stand Down will provide participating companies with the tools, guidance and support necessary to move the needle on heat-related health incidents. In 2014, 1,160 injury and illness cases with lost work days involved exposure to environmental heat in the services providing industries.

The waste and recycling industry falls into this sector. The NWRA is assisting with tools to help employers make employees aware of the risk. Through this Stand Down, NWRA aims to prepare companies to address the concern and provide employees the resources they need to stay healthy in the heat.

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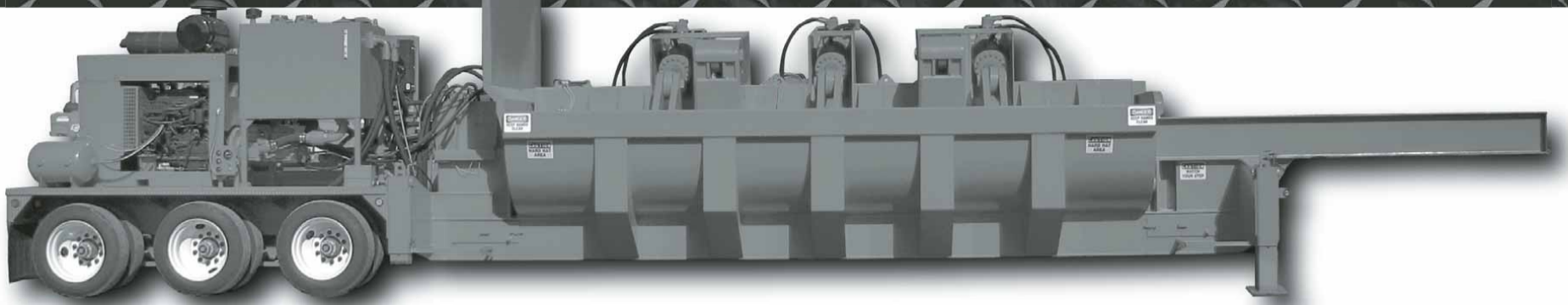
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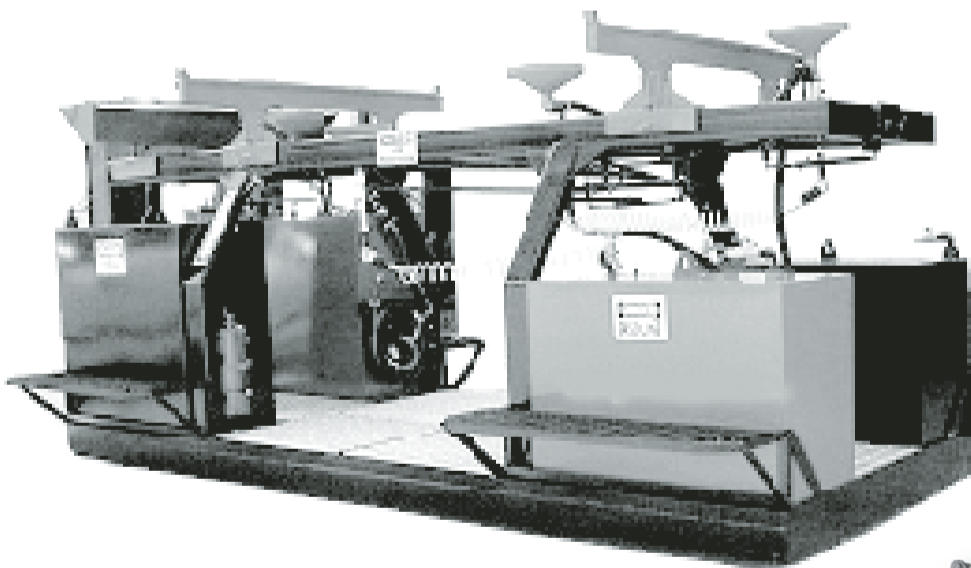
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WASTE

Federal Court issues injunction against Warrick County Solid Waste Management District

The United States District Court for the Southern District of Indiana issued a temporary injunction against the Warrick County Solid Waste Management District striking down its plan to establish an exclusive curbside waste and collection service that would have restricted competition and create a de facto monopoly for the processing of waste and recycling in the County. The complaint for an injunction was brought by the National Waste and Recycling Association (NWRA) on November 13, 2015 on behalf NWRA's Indiana Chapter. The Court also rejected the District's counterclaim for a preliminary injunction against NWRA in the matter.

In granting NWRA's motion for a preliminary injunction, the Court found, among other things, that "NWRA's mem-

bers will suffer irreparable harm absent the preliminary injunctive relief." The Court enjoined the District from enforcing its plan against any NWRA member or other party that wishes to compete to provide waste and recycling collection services in Warrick County. The plan, which was enacted by the District, was known as Resolution 2015-03. NWRA had detailed in its complaint that Resolution 2015-03 violates both the Commerce Clause of the United States Constitution and various Indiana statutes.

"This is a victory for the citizens of Warrick County," commented Terry Guerin, chairman of the Indiana Chapter of the NWRA. "Competition is good for consumers, and residents of Warrick County are free to choose who will provide their curbside collection."

Republic expands Florida CNG fleet

Republic Services has added 62 compressed natural gas (CNG) solid waste collection trucks serving customers in Broward and Dade Counties. The new CNG trucks replace older diesel-powered collection trucks, and bring the total number of natural gas vehicles operated by Republic in South Florida to 127.

In South Florida, Republic has more than 220 employees who serve approximately 117,000 residential customers and more than 10,500 commercial customers.

Republic operates one recycling center and one hauling division in the Fort Lauderdale area, as well as a CNG fueling station to support its expanding Fort Lauderdale-based fleet.

In 2015, Republic Services was among the top companies recognized by Carbon Disclosure Project (CDP), an international non-profit organization dedicated to disclosing environmental information, in the 2015 CDP S&P 500 Climate Change Report.

ALTERNATIVE ENERGY

Duke Energy to use animal waste in conversion facility

Duke Energy will buy swine and poultry waste output from a facility planned for eastern North Carolina –using the captured methane gas to generate renewable electricity at four power stations.

Carbon Cycle Energy will build and own the facility. The location has not been announced, but is expected to be in eastern North Carolina.

Under North Carolina's Renewable Energy Portfolio Standard (REPS), Duke Energy companies must meet specific compliance targets for swine and poultry waste. Duke Energy is already buying electricity generated from other facilities in the state.

Expanding the utility's renewable energy output, the captured methane will be treated, injected into the pipeline system and used at four Duke Energy plants:

- Buck Steam Station in Rowan County.
- Dan River Steam Station in Rockingham County.

•H.F. Lee Station Combined Cycle Plant in Wayne County.

•Sutton Combined Cycle Plant in New Hanover County.

Under a 15 year term, Carbon Cycle Energy is expected to produce more than 1 million MMBtus of pipeline-quality captured methane a year. Duke Energy should yield about 125,000 megawatt-hours of renewable energy a year – enough to power about 10,000 homes for a year. The renewable energy credits (RECs) generated annually by the effort will help satisfy state mandates.

On March 18, Duke Energy filed with the North Carolina Utilities Commission (NCUC) registration statements and additional information related to the plants being designated as New Renewable Energy Facilities. Under the state's REPS requirements, this must be done for plants that will consume and generate new renewable energy.

Blue Sphere to acquire plant in Italy

Blue Sphere Corporation, a power producer that develops, owns and manages waste-to-energy facilities globally, has signed an exclusive term sheet to acquire a waste-to-energy biogas plant from Agrilandia Societa Agricola a r.l.

As proposed in the term sheet, Blue Sphere shall acquire a 100 percent interest in the Plant, the land where the Plant is

built and the feedstock inventory. The proposed acquisition also includes all operating agreements including the remainder of the power purchase agreement (PPA) that is in place with Gestore del Servizi Energetici, S.p.A (GSE). GSE is a state owned company that promotes and supports renewable energy sources in Italy, under a

See BLUE SPHERE, Page 11



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INTERNATIONAL

Ice River Springs funds EREF Master's Scholarship

The Environmental Research & Education Foundation (EREF) shared that Ice River Springs Water Co., Inc. has funded a named scholarship for the EREF scholarship program.

Fully integrated from water source to the manufacturing of bottles, Ice River Springs is an Ontario-based company that makes bottles, caps and packages, and packages spring water, purified water and distilled water. The company strives to constantly innovate finding new ways to recycle, reduce energy consumption and minimize waste. Ice River Springs is the only beverage company in North America to operate a closed-loop system that reclaims plastic from used containers and

produces 100 percent recycled bottles along with filling and distribution.

The eligibility requirements for the Ice River Springs Master's Scholarship for Sustainability are as follows:

• Master's students enrolled full-time.
• Must be enrolled at a Canadian academic institution.

• Area of research that relates to recycling, with preference given to applicants exploring the recyclability of plastics, plastic bottles and/or PET (polyethylene terephthalate) plastic.

Interested applicants should complete the online EREF scholarship application available at www.erefndn.org.

Blue Sphere

Continued from Page 10

power purchase agreement. The Plant's PPA runs through December 31, 2027.

The proposed purchase price contemplated for the transaction is approximately \$4,811,436 at the current Euro to Dollar conversion rates or approximately 4.5 times EBITDA. The purchase price will be paid in a combination of cash at closing and the assumption of bank debt from the sellers.

Austep, S.p.A, the operating partner and a global leader in waste to energy technology and management will guarantee the annual EBITDA, which is expected

to be approximately \$1m. The Austep, S.p.A financial guarantee will be further backed by an insurance policy underwritten and issued by a leading insurance provider.

The closing with the seller is subject to certain conditions including, but not limited to, the completion of due diligence by Blue Sphere and delivery to Blue Sphere prior to the execution of definitive agreements, all rights, permits, licenses, approvals and agreements required for the ownership and operation of the facility, including all governmental and regulatory approvals as well as feedstock supply agreements and power purchase agreements for the purchase of the electricity and gas produced by the facility.

RUBBER

California repairs roads using recycled tires

The California Department of Resources Recycling and Recovery (CalRecycle) has approved \$5,282,291 in grant funding to improve roads in 43 California communities. All projects will make use of rubberized pavement, which combines crumb rubber from recycled tires with traditional materials to create safer, longer-lasting, and more cost-effective road material.

"CalRecycle's Rubberized Pavement Grant Program is a crucial part of California's strategy to keep waste tires out of landfills and make use of these materials right here in our state," CalRecycle director Scott Smithline said. "As more communities realize the benefits of this environmentally sustainable option for road resurfacing and repair, California will be able to close the loop within our state and turn millions of additional waste tires into a resource that keeps our people safe, reduces costs, and protects our environment for future generations."

The Legislature created the Rubberized Pavement Grant Program in 2002 to promote recycling of the roughly 44 million waste tires generated in California annually. With the help of CalRecycle's programs and grants, 38 million of those tires are diverted from landfills, with many being used for civil engineering projects.

Some of the benefits of rubberized pavement made from California waste tires:

• **Cost effective** – In most applications, rubberized pavement can be applied at half the thickness of conventional asphalt overlays. Reduced maintenance creates further savings through the life cycle.

• **Durable, safe and quiet** – Rubberized pavement is more crack-resistant and lasts up to 50 percent longer than traditional materials. Research has also shown rubberized pavement is more skid-resistant and absorbs more sound, reducing road noise. The material also retains its darker color for longer, ensuring road markings remain visible and vibrant.

• **Environmentally friendly** – California produces approximately 44 million waste tires annually. A 2" thick rubberized pavement resurfacing project uses approximately 2,000 waste tires per lane mile. Since applications are thinner, less raw material is used when applying rubberized pavement.

The maximum grant award for individual applicants in CalRecycle's Rubberized Pavement Grant Program is \$250,000. For the first time, multiple jurisdictions and joint-power authorities were able submit regional applications for the 2015/16 grant cycle and receive a maximum grant award of up to \$400,000. Grants are funded through a fee that consumers pay when purchasing new tires in the state; \$1 goes to CalRecycle's fund, while the other 75 cents goes to California's Air Resources Board.

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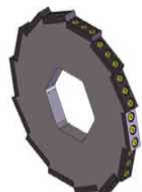
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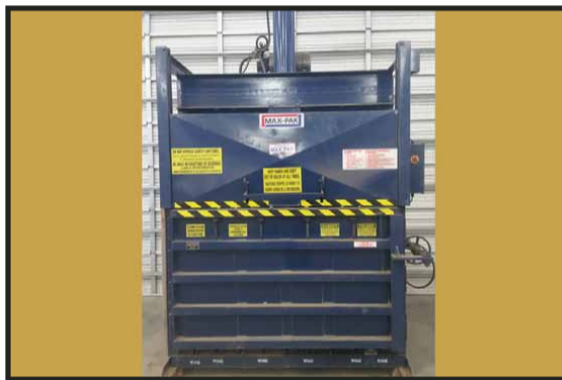


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METALS

Bodner honored for achievements

The Institute of Scrap Recycling Industries (ISRI) recognized Emanuel Bodner of Bodner Metal & Iron Corporation in Houston, Texas with its Lifetime Achievement Award. Bodner received the award for his life-long dedication and leadership to the industry and overall commitment to ISRI.

Last month, Bodner retired as president of Bodner Metal & Iron, beginning a new chapter in his life.

Bodner has served in a number of leadership roles for ISRI at both the national and chapter levels. Past positions include: convention chair of ISRI's Gulf Coast Chapter; vice-chair of the Chapter Presidents Committee; president of the Recycling Research Foundation; and more. He is currently the chair of the Design for Recycling Task Force.

The award was presented to Bodner during ISRI's annual convention.

Antidumping order hits steel imports from seven countries

The United Steelworkers (USW) union commended the U.S. Department of Commerce (DOC) for its preliminary decision to place antidumping duties on unfairly traded hot-rolled flat steel from seven countries.

The trade case, filed by six U.S. steel companies last August, charges producers in Australia, Brazil, Japan, Korea, the Netherlands, Turkey and the United Kingdom with violating international trade regulations by improperly subsidizing their steel producers and by dumping hot-rolled steel at below market prices in the U.S.

"With more than 12,000 ongoing layoffs across the American steel and iron ore mining industry, plus tens-of-thousands of steelworkers jobs depending on this decision - it sends a strong signal that our government will enforce international trade laws to defend American manufacturing jobs," said Leo W. Gerard, USW International president.

"The domestic steel sector is facing a crisis caused by a flood of unfairly priced imports and by global overcapacity, which is largely fueled by China," Gerard added.

The petitions of the domestic steel companies against hot-rolled steel imports said illegal trade practices facilitated imports from all seven countries to rise 73 percent from 2012 to 2014. In today's preliminary finding, the DOC found antidumping margins in a range of 3.97-7.33 percent for Korea to 49.05 percent for United Kingdom.

The duty margins indicate hot-rolled steel imports were being sold at a price that is either below the cost of producing the product, or sold at a price below that producer's domestic price.

The steel corporations that filed the petition are: AK Steel Corp., ArcelorMittal USA LLC, Nucor Corporation, SSAB Enterprises, LLC, Steel Dynamics, Inc. and U.S. Steel Corp.

The steel companies reported that imports from these countries during the January through May 2015 period rose an additional 54 percent over that same time period in 2014. Earlier this year, the DOC issued a preliminary determination in the investigation on subsidies that Brazilian producers of hot-rolled steel would be subject to countervailing duties of 7.42 percent.

The preliminary antidumping order on hot-rolled steel is a critical step in one of three separate high profile steel trade cases. The other two USW-supported cases against imports still being investigated are cold-rolled and corrosion-resistant steel.

With the DOC's preliminary margins, U.S. Customs and Border Protection will require cash deposits for the potential duties until the U.S. International Trade Commission (ITC) makes a final decision. The next steps in the hot-rolled steel case will be a final determination by the DOC in late July and a final vote by the ITC in September.





Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$165.00	\$170.00	\$185.00	\$195.00	\$210.00
#1 Bundles	per gross ton	163.00	169.00	184.00	234.00	205.00
Plate and Structural	per gross ton	180.00	175.00	185.00	240.00	210.00
#1 & 2 Mixed Steel	per gross ton	182.00	179.00	175.00	210.00	220.00
Shredder Bundles (tin)	per gross ton	110.00	120.00	140.00	160.00	185.00
Crushed Auto Bodies	per gross ton	110.00	120.00	140.00	160.00	185.00
Steel Turnings	per gross ton	89.00	87.00	100.00	132.00	151.00
#1 Copper	per pound	1.97	2.08	1.98	2.01	2.10
#2 Copper	per pound	1.84	1.95	1.85	1.97	1.98
Aluminum Cans	per pound	.58	.56	.54	.57	.55
Auto Radiators	per pound	1.32	1.43	1.40	1.45	1.45
Aluminum Core Radiators	per pound	.54	.54	.53	.52	.51
Heater Cores	per pound	.98	.97	.95	1.10	1.20
Stainless Steel	per pound	.43	.44	.44	.44	.47

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

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METALS

Steel imports decrease 17 percent in February

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

	FEB 2016	JAN 2016	2016 Annualized	2015 Full Year	% Change 2016 Annual vs. 2015
SOUTH KOREA	374	242	3,692	4,854	-23.9%
TURKEY	207	244	2,700	2,823	-43%
JAPAN	114	189	1,794	2,259	-20.6%
GERMANY	80	121	1,201	1,515	-20.7%
CHINA	80	92	1,031	2,374	-56.6%
BRAZIL	59	154	978	1,437	-32.0%
AUSTRALIA	46	100	877	330	165.5%
All Others	1,119	1,067	13,571	15,852	-14.4%
TOTAL	2,079	2,229	25,844	31,445	-17.8%

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,212,000 net tons (NT) of steel in February 2016, including 2,079,000 NT of finished steel (down 16.5 percent and 6.7 percent, respectively, vs. January final data). Year-to-date (YTD) through two months of 2016 total and finished steel imports are 4,860,000 and 4,307,000 net tons (NT), respectively, down 40 percent and 34 percent respectively, vs. the same period in 2015. Finished steel import market share was an estimated 26 percent in February and is estimated at 26 percent YTD.

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

(up 32 percent), tin plate (up 53 percent), structural pipe and tubing (up 12 percent) and sheets and strip all other metallic coatings (up 11 percent).

In February, the largest volumes of finished steel imports from offshore were from South Korea (374,000 NT, up 55 percent from January final), Turkey (207,000 NT, down 16 percent), Japan (114,000 NT, down 40 percent), Germany (80,000 NT, down 33 percent) and China (80,000 NT, down 12 percent). For two months of 2016, the largest offshore suppliers were South Korea (615,000 NT, down 53 percent), Turkey (450,000 NT, down 23 percent), Japan (299,000 NT, down 34 percent), Germany (200,000 NT, down 32 percent) and China (172,000 NT, down 63 percent).

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INDUSTRY PROFILE

A Closer Look

by Donna Currie

Becker Iron & Metal

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Mike Becker, president and owner of Becker Iron & Metal is part of the fourth generation of Beckers in the recycling industry. His great-grandfather, Joseph, was born in Russia, conscripted to fight in the Russian-Japanese war and was captured and held in a Japanese POW camp.

After his release and return to Russia, Joseph was not given the same benefits as other returning POWs because he was Jewish. So in 1906, he moved to the U.S. His first stop was New York, but he felt it was too crowded.

Joseph planned on moving to California to join the Gold Rush, but had to stop over in St. Louis before continuing. While in St. Louis, he needed to raise money and started collecting rags and metal and fish bones that he could sell.

Before long, he realized he could make decent money from collecting scrap and he didn't need to go to California. Instead, he bought a horse and opened an office and his brother (Becker's great uncle) joined the business.

Joseph had a son, Hymen (Becker's grandfather), who made it all the way through the fourth grade before he quit school and joined the burgeoning family business.

In the 1940s, as prices for metals started to rise and the company grew, Becker said that at one point there were only three scrap companies large enough to sell copper direct. There was one on the east coast, one on the west coast, and the Becker family business in St. Louis.

Meanwhile, Becker's father, Richard, had joined the business, becoming the third generation in the company. Shortly after Hymen died, Richard had "a falling out with his uncle," Becker said. In 1976, Richard started his own recycling business.

In 1992, Becker's great-uncle shut down his recycling business, and Richard "got the Becker name back." Becker graduated college that same year, but took a year off before he joined the family business in 1993 and "never looked back."

Becker said that the company has been "on a high growth trajectory ever since," starting with the acquisition of a few smaller local scrap companies, and later, the purchase a larger business with over 70 industrial accounts. That purchase changed Becker Iron & Metal from one that purchased from individuals and peddlers to one that also serviced industrial accounts.

Soon, the company moved to a 6.5 acre property and later moved into a 16 acre property in Venice, Illinois, across the river from St. Louis.

Meanwhile, in 2001, Becker's brother, Dan, joined the company as a consultant. "He had to learn the ropes," Becker said, before he bought in to the company.

In 2012, Richard sold the business to his two sons. Richard still comes in every day, but Becker said that he also spends more time enjoying himself.

Now, Dan is the co-president and is responsible for sales of ferrous metals and is in charge of all operation, while Becker takes care of the accounts, buyers, and special projects on the scrap management side.

Becker Scrap Management Solutions is the name of a division that handles those special projects, providing full-scale recycling services for retailers, including stores and distribution centers in the U.S. and Canada.

While the company picks up material from local industrial accounts, they use other scrap haulers across the country to handle metals from the retailers. "We manage the process on the store level and on the distribution level," Becker said. "Some of them are one-off and some of them are recurring."

Becker said that what he likes best about the business is that "there's always an opportunity I can explore." He said that sometimes when a customer calls with a project "it's like a puzzle in a way," as he tries to find the right solution. "It's more of a think tank than a business."

One of the company's recent achievements was to be the first business in Illinois to get SHARP status, which is OSHA's Safety and Health Achievement Recognition Program. Becker said that Dan was very involved with that achievement.

There are also challenges, Becker said, including government regulations. "The scrap business feels like it's always on the defensive," he said, as they deal with anti-theft laws. Becker said that the laws are good, but, "in the public eye, we are part of the problem."

Even with the challenges, Becker said that he and his brother "love the business and the tradition." Speaking of tradition, between the two brothers, they have four sons who might continue that tradition into a fifth generation.

One thing Becker said they want to do is grow internally, by creating new programs. "We come in with vigor and fire and passion and say 'what are we going to do today?'"



—Mike Becker

AUTOMOTIVE

GM recycles water bottles to make Chevy Equinox parts



GM global manager of waste reduction John Bradburn demonstrates the Chevrolet Equinox engine insulation made from used water bottles from several GM facilities.

PHOTO BY SANTA FABIO FOR GENERAL MOTORS

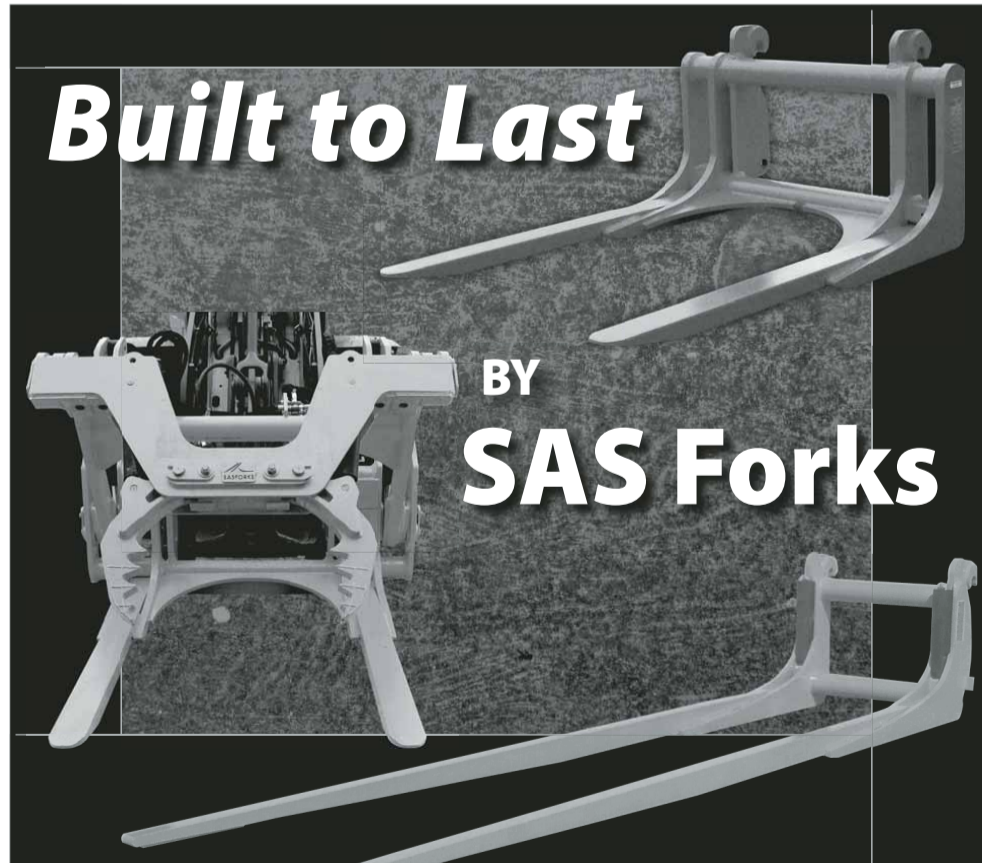
General Motors (GM) is turning its employees' recycled water bottles into a new life: noise-reducing fabric insulation that covers the Chevrolet Equinox engine. The bottles, collected from five of its Michigan facilities, are also being turned into air filtration components and insulation in coats for the homeless community.

Given its drive to zero waste, all of GM's facilities recycle their water bottles. However, the bottles collected at the 5 locations are now funneled into its "Do Your Part" project, where 11

businesses collaborate to give them a second life. The air filtration components are used in GM facilities to protect air quality; the insulation goes into Empowerment Plan coats that turn into sleeping bags.

"Recycling is good, but viewing waste as a valuable resource that can be plugged into your operations or products is even better," said John Bradburn, GM global manager of waste reduction. "It's about rethinking the process and finding more sustainable ways to manufacture products."

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AUTOMOTIVE

IARC Congress holds auto recycling conference



IARC Congress Exhibition Hall held in Berlin, Germany in March 2016.

PHOTO COURTESY OF IARC

In March, the International Automobile Recycling Congress (IARC) 2016 in Berlin, Germany, came to an end. More than 220 representatives of the global automotive recycling sector had come together to discuss current political conditions and the latest trends in recycling technology. The IARC 2016 congress team had prepared almost 30 presentations and a panel discussion for the participants. In addition, the congress was accompanied by an exhibitors' forum comprising 24 companies.

The talks and discussions at the IARC showed that even 15 years after the enactment of the EU end-of-life vehicle directive, there is no danger of running out of topical issues to discuss. As the increasing application of composite materials and carbon fiber-reinforced plastics as well as the broader use of lithium-ion batteries are factors confronting end-of-life vehicle recyclers, an array of new challenges will need to be met during the next few years.

The keynote speech held by Dr. Kay Oppat, chief operating officer of the Scholz Group, called for the formation of a think tank consisting of representatives from automotive manufacturers, suppliers and recycling companies. The underlying idea is to find a common approach to increase the availability of end-of-life vehicles. Professor Julian Allwood from the University of

Cambridge is convinced that the recycling of end-of-life vehicles offers great potential for innovation and in his keynote speech he encouraged those members of the recycling industry attending the IARC to demand support in achieving this aim.

The main focus of further speeches dealt with finding and developing suitable measures and treatments which enable set recycling, reuse and recovery targets to be met. In addition, a separate block of presentations addressed the topics waste-to-energy and gasification processes.

Wei Sun from Volkswagen (China) Investment Co. provided listeners with an insight into the development of end-of-life vehicle recycling regulations in China. Captain N S Mohan Ram of the Indian company TVS Motor Company Limited provided information on end-of-life vehicle recycling in India, and Cagri Akin from the Turkish company Remer/ÖTASAD reported on the car recycling sector in Turkey. Arturo Rufino of the company JR Diesel and Bruno Garfinkel of insurance company Porto Seguro gave an insight in ELV recycling developments in Brazil.

The common thread running through all presentations, however, was the aim to improve recycling of end-of-life vehicles through greater efforts to achieve a circular economy.

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BUSINESS BRIEFS

Lakeshore Recycling acquires C&D Recycling

■ Lakeshore Recycling Systems (LRS), Chicagoland's leading independent recycling and waste diversion provider, has acquired Northbrook, Illinois-based C&D Recycling. With the acquisition, LRS will control and process over 2 million tons of waste material annually, more than any other privately held company in Illinois. Financial terms were not disclosed.

Founded in 2007, C&D Recycling is an integrated recycling facility. With the addition of C&D Recycling, LRS now operates six material recovery facilities throughout the Chicago area and Illinois with annual revenues in excess of \$130 million and over 540 full-time employees.

Wastebuilt appoints new chief operating officer

■ Wastebuilt Environmental Solutions, LLC has appointed David E. McKeon as its chief operating officer.

McKeon joins Wastebuilt with considerable experience managing all facets of industrial distribution, manufacturing, and service. Prior to joining Wastebuilt, he spent nine years as president of C&H Distributors, where he oversaw its North American operations. His operating experience also includes leadership positions with McMaster-Carr Supply, Beckley Cardy Group, and USABlueBook.

If you don't make things happen then things will happen to you. —Robert Collier

BioHiTech Global adds Dennis Soriano to staff

■ BioHiTech Global, Inc., a green technology company, has appointed Dennis Soriano to the position of director of business development and strategic relationships to expand the company's portfolio of Fortune 500 customers and innovative clean technology solutions.

Soriano joins BioHiTech after five years with Waste to Water LLC, one of the company's competitors, where he served as the company's chief executive officer.

Over the course of his 40 year career in the waste and recycling industries, Soriano has developed significant experience in contract negotiation, environmental permitting, facility operations and mergers and acquisitions.

Soriano's earlier experience included the position of chief operating officer of Greenstar Recycling where he oversaw operations, supply chain management and organizational development. Prior to Greenstar he served as vice president of business development for Waste Management Recycle America.

Flint Equipment now offers Bandit's equipment line

■ The Construction and Forestry Division of Flint Equipment Company's South Carolina dealerships have joined a growing network of companies that offer Bandit® equipment. Flint Construction and Forestry Division will handle sales, parts and service of all large Bandit equipment in the region, including all whole tree chippers and The Beast® horizontal grinders.

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BUSINESS BRIEFS

Cooper Equipment Co. joins Atlas Copco network

■ Atlas Copco welcomed Cooper Equipment Co. of San Antonio, Texas, to its growing dealer network. The new dealer will sell, rent and service Atlas Copco Dynapac pavers as well as soil and asphalt rollers to meet customer demand for road construction equipment in central Texas.

Cooper Equipment Co. will offer customer service and training for its asphalt and road construction equipment. Cooper plans to open a second store in Georgetown, Texas.

Andritz MeWa names distributor in Colorado

■ Andritz MeWa, specialist for recycling machines and complete plant solutions and a member of international technology group Andritz, has extended its worldwide sales network.

M-L Environmental LLC of Westminster, Colorado, took over North American sales of shredding and crushing machines for electronic scrap, refrigerators, metal scrap, cable scrap, used tires, household and industrial waste, and many other applications. With this move, Andritz MeWa is reacting to the increasing demand for environmental technologies in the North American market and can now offer closer contact with its customers.

M-L Environmental is a subsidiary of M-L Holding and was established especially for the sale of leading environmental technologies in the North American market.

Three industry companies join to launch 3TEK Global

■ Three suppliers of scrap recycling equipment have formed a joint venture and launched a new company to serve the recycling industry. The new company, 3TEK Global, incorporates product engineering, manufacturing and product support from Granutech-Saturn Systems, Peninsula Equipment and Riverside Engineering. Headquarters are located in Grand Prairie, Texas.

3TEK Global was created to bring the next line of hammermill shredders and related downstream separation equipment to the small and medium sized yards processing less than 50 tons per hour.

PM Environmental adds Gilmore-Love as manager

■ PM Environmental, Inc. has hired Monica Gilmore-Love as regional manager and senior consultant in the Jackson, Mississippi office where she will serve as lead contact in the region.

Gilmore-Love comes to PM with more than 25 years of environmental experience. She also has considerable experience with National Environmental Policy Act and HUD-related environmental assessments, Phase II site assessments and cell tower siting requirements.

At PM, she will be part of the senior management team that strategically plans the growth and operations of the company as well as oversee project management, including marketing and client development, personnel oversight, field investigations and report preparation.



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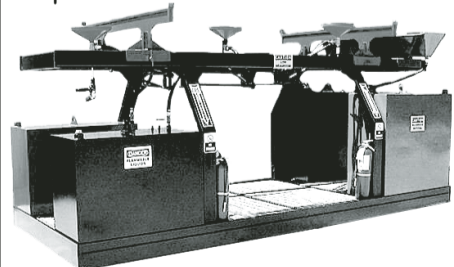
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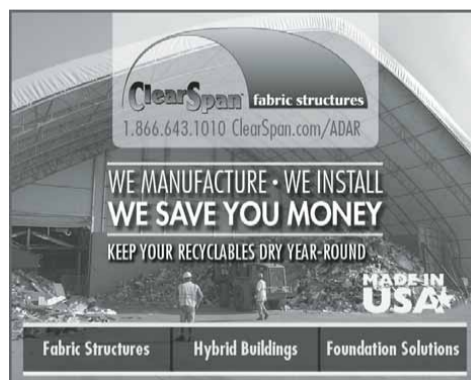
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Construction & demolition recycling expanding

by MAURA KELLER

mkeller@americanrecycler.com

Construction and demolition operations tend to produce a tremendous quantity of waste. And, for the most part, recycling of construction and demolition (C&D) waste is a legal requirement. However, in those areas where it's not required, money has often been invested in landfills instead of recycling centers, making recycling construction and demolition waste more difficult or sometimes impossible.

Enter the Construction & Demolition Recycling Association (CDRA), an entity that has worked hard to advocate the viewpoint of C&D recyclers at all levels of government. With more than 200 members, CDRA has had state legislation passed that would promote the use of recycled aggregates, and has worked with regulators in many states to develop regulations that are fair to recyclers. Because the CDRA is recognized as the leading authority on C&D recycling, these regulators usually call on the CDRA for direction.

According to a white paper commissioned by the CDRA that studied the impact of C&D recycling, generation statistics are not rigorously tracked in the U.S., and the estimates of the amount of C&D landfilled and recycled vary dramatically. In 2012 the amount of C&D waste generated in the U.S. was estimated at approximately 480 million tons. The C&D waste consisted of approximately 100 million tons of mixed C&D, 310 million tons of bulk aggregate (primarily concrete) and 70 million tons of reclaimed asphalt pavement (RAP).

As the CDRA explains, "over 70 percent of this waste stream was projected as being recovered and put to beneficial use by the C&D recycling industry (corresponding to a 35 percent recycling rate for mixed C&D, an 85 percent recycling rate for bulk aggregate, and an over 99 percent recycling rate for RAP).

The area of landfill avoided by recycling this amount of C&D is equivalent to over 4,300 acres (at a waste depth of 50'). The energy savings and greenhouse gas (GHG) emissions avoidance as a result of recycling C&D components instead of landfilling them was assessed using emission and energy factors developed by the U.S. Environmental Protection Agency.

According to the CDRA, in 2012, the estimated magnitude of GHG emissions offset by recycling this C&D waste corresponded to taking 4.7 million passenger cars off the road for an entire year. Also, the energy savings resulting from C&D recycling was equivalent to over 85 million barrels of oil. Using industry survey results and the waste recycling projections, the C&D recycling industry was projected to be responsible for the direct support of 19,000 jobs in the U.S. in 2012. And the direct annual revenue of the C&D recycling industry was estimated to be approximately \$7.4 billion, and when considering indirect and induced economic output, the industry represented an over \$17 billion contribution.

Making Progress

The construction and demolition recycling industry is filled with a myriad of rules and regulations, which are constantly being monitored by the CDRA and other players within the industry.

Daniel Hartsig, manager of new construction services in Transwestern's Sustainability Services group, explained the unique, evolving parts of the



Chad Mitchell, of MiCA Creatives, believes that not enough is being done to recycle more while building more efficiently.

C&D recycling industry. As a sustainability consulting firm, Transwestern's job is to assist property owners with securing LEED certification credits. Recycling can be an easy way to earn points toward a certification if the local infrastructure exists to recycle construction and demolition waste – and very easy if comingled processing facilities exist.

"Construction waste recycling is easier than demolition waste recycling because there is much less processing required to separate or clean materials," Hartsig said. However, comingled recycling centers, or locations that process a dumpster full of waste to separate material types, are becoming more prevalent, especially in areas where construction and demolition recycling is required.

And less common, though not insignificant, are areas where opportunistic recycling, scrappers or salvage operations – both legal and otherwise – operate. These may overlap areas with official recycling infrastructure but are more common in areas without one.

As Hartsig explained, single-source recyclers are still the most common, usually collecting a single material and either remanufacturing it directly or bulk selling the raw material to finished-product manufacturers.

"Salvage centers that separate and clean reusable whole pieces are a minority everywhere, but they tend to be located in low-income communities where there is less manufacturing of finished products as well as in bigger urban markets where the volume of waste is higher and there is a stronger demand for trendy design applications of reused materials," Hartsig said.

Of note, there are more and more companies willing to buy back used product, either for recycling or salvage efforts. This most often includes furniture, carpet or electronics companies, but it is starting to include mechanical, electrical and plumbing product providers.

Blaine Beck, a solid waste management consultant with SCS Engineers said that recycling within the

construction and demolition (C&D) industry has increased over the past decades and continues to increase.

"This is a result of more incentives for recycling, technology has made the recycling industry more profitable, and public pressure towards the solid waste management industry to increase recycling," Beck said. "C&D recycling is widespread in areas and communities that are able to afford and implement material recovery facilities. But for places that do not have the resources to build a material recovery facility, those C&D wastes are directly landfilled since it is not economical to ship wastes to distant material recovery facilities or the appropriate processing facility."

Chad Mitchell, co-founder at MiCA Creatives, a California-based design build firm, said that although there has been some progress in recycling within the industry, it has been a slow progression and not enough is being done to recycle more while building more efficiently.

"The LEED certification program has helped reward companies for rethinking the ways buildings are constructed and in turn it trickles down to the construction and demolition business," Mitchell said.

There are more and more companies that request you work with sustainable resources, recycled products and/or chemical-free materials. Companies like Google have even gone as far as creating a "Healthy Materials Program" which involves construction companies and vendors being voted through a process to make Google's Red List approved vendors.

"What this does is force construction companies and demolition companies to adhere to these practices or lose out of major jobs," Mitchell says. "I would prefer to see construction companies wanting to recycle and practice more green methods on their own, but it is often not the case because there is not a large upside monetarily for the contractor. Don't get

See C&D RECYCLING, Page B7

Silica rule's standard is a missed opportunity

The chief executive officer of the Associated General Contractors of America issued the following statement in response to the release of a final federal regulation governing exposure to silica by the U.S. Department of Labor:

"Instead of crafting new and innovative ways to get more firms to comply with the current silica standard, which we know would save even more workers each year, administration officials appear to have instead opted to set a new standard that is well beyond the capabilities of current air filtration and dust removal technologies. Wishing firms could meet this new but unattainable standard will undoubtedly deliver many positive headlines for the administration, but it will be all but impossible for most construction firms to comply with this new rule.

"We will continue our exhaustive review of this new regulation, consult with our members and decide on a future course of action that will best serve the health and safety of millions of construction workers across the country."

Construction employment rises steadily over latest 12 months

Forty-three states and the District of Columbia added construction jobs between February 2015 and February 2016 while construction employment increased in 27 states between January and February, according to analysis of Labor Department data released by the Associated General Contractors of America. Association officials said the pullback in energy prices and farm income appeared to be dampening demand for construction in some states while firms in other states continue to expand.

"In most of the country, construction continues to outpace other industries in adding jobs," said Ken Simonson, chief economist for the association. "Contractors remain upbeat about demand for many types of projects, but they are having difficulty finding enough qualified workers." Simonson noted that job openings spiked in January, according to the latest survey from the Bureau of Labor Statistics.

California added the most construction jobs (53,800 jobs, 7.6 percent) between February 2015 and February 2016. Other states adding a high number of new construction jobs for the past 12 months include Florida (25,800 jobs, 6.2 percent), New York (19,100 jobs, 5.5 percent) and Massachusetts (14,600 jobs, 11.0 percent). Hawaii

added the highest percentage of new construction jobs during the past year (19.1 percent, 6,300 jobs), followed by Rhode Island (14.6 percent, 2,400 jobs), Massachusetts and New Hampshire (10.2 percent, 2,400 jobs).

North Dakota lost the highest percent and total number of construction jobs (-14.5 percent, -5,300 jobs). Other states that lost jobs for the year include Alaska (-8.2 percent, -1,500 jobs), Wyoming (-7.2 percent, -1,700 jobs), West Virginia (-6.9 percent, -2,300 jobs), Kansas (-6.5 percent, -4,000 jobs), Mississippi (-1.7 percent, -800 jobs) and Pennsylvania (-1.4 percent, -3,200 jobs).

"The states with the steepest declines in construction jobs during the past 12 months have been hurt by the pullback in oil and gas drilling, coal mining and farm income," Simonson noted. "A wide variety of influences boosted construction employment in other states, including weather that was more favorable this February than a year ago."

California added the most construction jobs between January and February (12,300 jobs, 1.6 percent). Other states adding a high number of construction jobs include Washington (5,500 jobs, 3.1 percent), New York (4,500 jobs, 1.2 percent), Michigan (3,900 jobs, 2.6 percent) and Minnesota

(3,200 jobs, 2.7 percent). Washington added the highest percentage of construction jobs during the past month, followed by Kentucky (2.9 percent, 2,200 jobs), Minnesota and Michigan.

Construction employment declined in 21 states and D.C. during the past month and held steady in Rhode Island and Tennessee. Texas shed more construction jobs than any other state (-5,300 jobs, -0.8 percent), followed by Louisiana (-4,700 jobs, -3.2 percent), Illinois (-2,400 jobs, -1.1 percent), Kansas (-1,900 jobs, -3.2 percent) and Florida (-1,800 jobs, -0.4 percent). Maine lost the highest percentage of construction jobs between January and February (-3.6 percent, -1,000 jobs), followed by Louisiana and Kansas.

Association officials said the new hiring figures show contractors continue to be able to find and hire new workers despite widespread reports of labor shortages. But they cautioned that labor shortages may undermine overall employment levels in the sector in the near future. "Without additional programs to recruit and prepare new workers, especially at the high school level, firms may not be able to find new workers as demand for their services continues to expand," said Stephen E. Sandherr, the association's chief executive officer.

Dominion Transmission builds WV's first privately owned LEED Gold building

Dominion Transmission Inc.'s new office building has attained Gold status under the Leadership in Energy and Environmental Design (LEED) program, the first privately owned building in West Virginia to achieve such status.

The highlights of the new building's features include:

- 90 percent of building occupants have access to outside views from workspace.

- 82 percent of construction waste was recycled and diverted from landfill.

- 70 percent of 2 year building electricity usage purchased with green power renewable energy credits.

- 36 percent designed reduction in water use by installing efficient water toilets, urinals, lavatory faucets, showers and kitchen sinks.

- 31 percent designed energy cost savings.

- 30 percent of cost used for recycled materials.

- Reflective roof to reduce heat absorption.

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EQUIPMENT SPOTLIGHT

Tub Grinders

by MARY M. COX

maryc@americanrecycler.com

Useful in processing organic and other waste, tub grinders rely on gravity and tub rotation to feed material into a hammer mill at the bottom of the tub, which then grinds the material. There are a variety of tub grinders available in the global marketplace, with a myriad of sizes and capabilities, including for construction and demolition (C&D).

CW Mill Equipment Company has been manufacturing grinders for over 40 years, and the firm's



CW Mill Equipment Company

HogZilla® grinders are configured with either tub or horizontal feed systems mounted on self-propelled tracks, trailers, and stationary frames. "Diesel engines are the most popular power source facilitating portability, but electric power is very popular even in high horsepower systems due to the simplified overall design. HogZilla's heavy construction, quality components, and proven performance have stood the test of time in a wide variety of applications such as C&D, land clearing, mulch production, scrap tire processing, and many other types of waste and recycling processes," Tim Wenger, vice president and sales manager, stated.

He explained that when processing C&D waste, "knowing and understanding the mix of items included in the original waste is critical. All processing machinery requires some degree of classifying and sorting of the input material to make sure that the materials are fit for the chosen processing machinery. A properly sorted and classified waste stream ensures that the material to be ground will enable a safe, productive, and profitable operation. Assuming a given mix is capable of grinding, some discharge separation options are also available."

Some machines may also incorporate various mechanical or electronic options to possibly react to minimize the damage associated with instances where contamination has made contact with the grinder. The first and absolute best approach is to keep un-grindable materials out of the machine without relying on systems that intervene after contact with the mill. With input material control, industrial grinders become a great processing option.

Wenger concluded, "Whether customers are processing C&D material, forestry products or shredding tires, CW Mill offers many machine options, including mounted grapple loaders—and each machine can be customized to suit each individual user's wants and needs."

"At DuraTech Industries International, we supply a line of tub and horizontal grinders to fit the needs of today's recyclers. We have designed these grinders with features that allow us to be the leaders in the wood waste grinding business," Bob Strahm, vice president of sales, commented. DuraTech offers 7 models of tub grinders from the smallest model 2009 with 325 hp, 9.5' tub to the largest model 4012 with 950 hp, 12' tub. Features include enclosed engines with self-cleaning rotating radiator screens. Strahm said, "This system constantly keeps the radiator free of debris and the engine running cool. Another exclusive feature is the oscillating conveyors, which allow 150 percent more material than a typical conveyor, to be stacked without moving the machine. It also makes it easier to load trucks and to remove the ground pile by positioning the conveyor to one side and pushing the product away." Tub grinders are available with pintle hitch trailers, fifth wheel trailers or tracks. Models 3010 and 4012 are available with grapple loaders for self-loading. All features are offered on the horizontal grinders too – models 5064 and 9564. The 5064 model is 475 to 630 hp and the 9564 has a choice of 950 or 1050 hp.

"We sell tub grinders throughout North America and have also established an excellent reputation in the horizontal grinder market. DuraTech has been in business since 1966 and we continue to push our products into the wood waste recycling markets, which consist of recyclers, mulch and compost providers, and bio energy markets. Our customer base consists of municipalities, counties, townships and even parishes that see the value in wood waste recycling," said Strahm.



Vermeer

Vermeer offers 3 tub grinder models: TG5000, TG7000 and TG9000 — with horsepower of 540 (403 kw), 950 (708.4 kw) and 1,125 (838.9 kw), respectively. Each model also offers a corresponding size tub to meet differing throughput and end product size needs. Tub

diameters of models range from 12.3' in the TG5000, 13' in the TG7000 and 13.6' in the TG9000, to accommodate varying sizes of material to be processed.

Jeff Bradley, product manager – recycling and forestry stated, "The exclusive duplex drum design in our tub grinders makes maintenance more convenient with enhancements such as an independently secured wedge system and the ability to externally balance the drum. Impact tests are performed on all the hammers and tips used in the duplex drum system before they are certified as genuine Vermeer. The patented Thrown Object Restraint System (TORS) reduces the amount and distance of thrown objects, and helps to improve flow of material into the mill."

See TUB GRINDERS, Page B5

Manufacturer List

CW MILL Equipment Co., Inc.
Tim Wenger
800-743-3491
www.hogzilla.com

Diamond Z/Rule Steel
Pat Crawford
800-949-2383
www.diamondz.com

DuraTech Industries International Inc.
Bob Strahm
701-252-4601
www.duratechindustries.net

Morbark Inc.
Jeanne Maddox
800-831-0042
www.morbark.com

Peterson Corp.
Michael Spreadbury
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www.petersoncorp.com

Precision Husky Corporation
Bob Smith
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www.precisionhusky.com

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Sundt Construction named industry's safest in the nation

Sundt Construction, Inc. of Tempe, Arizona was named the nation's safest construction company in 2015 by the Associated General Contractors of America. The association, which oversees the Willis Towers Watson Construction Safety Excellence Awards, an annual ranking of construction safety programs, noted that 51 other companies were selected as winners for the quality of their safety programs.

"The foundation of any successful construction project is workplace safety," said Charles Greco, the association's past president and chairman of San Antonio-based Linbeck Group.

Greco said Sundt Construction was selected as this year's grand prize

winner because of its exceptional leadership in safety. He noted that the company was dedicated to the development and implementation of premier safety and loss prevention programs. The company presented outstanding guidance in safety and occupation health management, risk control, safety training, work site hazard identification and control, and safety program innovation, Greco added.

Greco noted that there are multiple winners because the awards are distributed for a number of categories, based on the size of the company, the amount of work performed and the type of work performed.

Tub grinders ■Continued from Page B4



DuraTech Industries International Inc.

Bradley noted that "with Vermeer tub grinders, contractors can use one machine to process waste materials to their end product needs more efficiently by simply switching out the screen sizes. The versatility of a tub grinder is one of the features our C&D customers appreciate the most. Large material can be processed on the jobsite to a more manageable size and then easily transported to where the tub grinder will regrind it into the final desired product, like landscape mulch. Depending on the application, the tub

grinder is also capable of sizing the product in one pass."

New construction is trending upward, Bradley believes, and "there is a strong correlation between new construction and C&D. Because of this, wood and organic waste generated will continue to grow from a volume standpoint across the U.S. As the industry looks to increase the recycling rate of these demolition materials, the need for equipment to do so efficiently will continue to grow as well."

Greenbuild diverts over 84 percent of waste

Increased 52 percent over the center's baseline diversion rate

USGBC and Informa Exhibitions U.S., Construction and Real Estate have released the 2015 Greenbuild Sustainability Report, highlighting valuable metrics and key benchmarks regarding the impact on energy use and waste management at the 2015 Greenbuild International Conference and Expo, held last fall at the Walter E. Washington Convention Center in Washington, D.C.

The comprehensive report details the sustainability programs implemented in 2015 through a review of all objectives, goals and best practices. Case studies provide detailed overviews of sustainability strategies and initiatives including attendee and stakeholder engagement, attendee wellness, waste diversion calculation and more.

The report shares the progress of seven sustainability objectives at Greenbuild, including the following highlights:

- Waste management: Informa Exhibitions, USGBC, Aramark, Centerplate/NBSE, Freeman and local haulers worked together to optimize waste management strategies, resulting in an overall 84 percent diversion rate. This was a 52 percent increase over the convention center's baseline diversion rate. These efforts included recycling and composting in kitchen areas, adding

additional waste streams and upgrading recycling/compost stations with improved signage in public areas,

- Stakeholder engagement: New in 2015 was an interactive greening wall that allowed attendees to learn more about specific sustainability initiatives. The display was an LCD, Energy Star-certified touchscreen located next to a miniature green wall. The Greenbuild team engages its vendors in a three-phase sustainability planning process in the year leading up to the show to set and meet conference sustainability goals.

- Sustainable sourcing: Thanks to the efforts of the Centerplate Team at the Walter E. Washington Convention Center, 33 percent of the food served at the convention center was sourced locally (within 100 miles) and 70 percent of the food was sourced regionally (within 500 miles).

Greenbuild, owned and operated by Informa and presented by USGBC, is the world's largest conference and expo dedicated to green building.

The three day conference attracts over 20,000 attendees and 600 exhibitors annually from across the green building sector, spanning commercial and residential professionals, architects, building owners and operators, students, advocates and educators.



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www.3tekglobal.com



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Norris Asphalt Paving Co. winner of quality award

The National Asphalt Pavement Association (NAPA) named Norris Asphalt Paving Co. of Ottumwa, Iowa, as the winner of the 2015 Sheldon G. Hayes Award for excellence in construction of an asphalt pavement. The award, bestowed annually since 1971, recognizes the country's highest quality highway pavements. Norris Asphalt Paving Co. and the Iowa Department of Transportation received their award at a ceremony during the association's 61st Annual Meeting in La Quinta, Calif.

The award was earned for Norris Asphalt's work on U.S. 34 in Montgomery and Adams counties. The 15-mile project dealt with variable widths, numerous turning and climbing lanes, and long material hauls. The project also included widening the road, including an almost two mile section of roadway that went from two lanes to four lanes and then back down to two lanes. In addition, another Iowa highway, U.S. 71, intersected the middle of the four-lane portion of the project.

The U.S. 34 project used more than 79,000 tons of asphalt. To start, a half inch to 1 inch of the road surface was milled off the east side of the roadway, said Bob Mobley, Norris Asphalt's Paving Superintendent.

The road's owner, the Iowa Department of Transportation, said the company's experienced personnel were a valuable asset to this project and its ability to juggle many variables.

Dan Roberts, Norris Asphalt's Project Manager, said that reclaimed asphalt pavement (RAP) was used in all

three of the project's mixes. "The RAP came from the project as we milled a little over 13 miles," said Roberts. "The base mix used 21 percent RAP, the intermediate mix used 20 percent RAP, and the surfaced mix used 17 percent RAP." Putting asphalt pavement material removed from old pavements back into new pavement mixes is a common practice, but the U.S. 34 project was notable for the amount of recycled content in each layer of the pavement structure.

The Sheldon G. Hayes Award winner and finalists are determined through a two-year evaluation process. Any highway pavement project using more than 50,000 tons of asphalt is eligible for consideration. Initially, the project must win a Quality in Construction (QIC) Award, which is determined by numerical scores given by pavement engineers at NCAT on the basis of how well the contractor met specifications and achieved density on the finished pavement. All the pavements that meet a benchmark figure earn the QIC Award.

The year after a project wins a QIC Award, it is eligible for consideration for the Sheldon G. Hayes Award. The top-ranked projects from each year are tested for smoothness, and then visually inspected by an independent pavement consultant with many years of experience in the industry. This year, the evaluators praised all the candidates for their high-quality construction practices, which resulted in smooth, safe, and durable pavements.

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U.S. EPA requires Southern California contractor to warn residents of lead-based paint dangers

The U.S. Environmental Protection Agency (EPA) recently fined G.D. Friend, Inc. (operating as Everlast Home Energy Solutions) \$28,564 for failing to comply with the federal Renovation, Repair and Painting (RRP) Rule while performing renovation work at two residential properties in Southern California. This rule seeks to protect the public from lead-based paint hazards that occur during repair or remodeling activities in housing built before 1978.

“Renovation work in older homes can create hazardous lead dust, but there are simple steps contractors can take to keep everyone safe,” said Jared Blumenfeld, EPA’s regional administrator for the Pacific Southwest.”

G.D. Friend, located in Anaheim, California, installs energy efficient home improvement products, such as windows and siding.

An EPA inspection found that in February and March 2014, the company performed work at two pre-1978

residential properties in Anaheim and La Verne without:

- Receiving proper certification from EPA;
- Providing clients with the required federal Renovate Right brochure;
- Keeping records indicating compliance with lead-safe work practices; or
- Ensuring a certified renovator performed all of its lead-based paint responsibilities.

EPA enforces the federal Toxic Substances Control Act and its RRP rule to protect residents from exposure to lead-based paint hazards. Contractors who disturb painted surfaces in homes and child-occupied facilities built before 1978 must be trained and certified, provide educational materials to residents, and follow safe work practices. Lead-based paint was banned for residential use in 1978, but EPA estimates that it is still present in more than 37 million older homes in the U.S.

C&D Recycling

■Continued from Page B1

me wrong. There are some great construction companies out there making some big improvements, but not enough or fast enough.”

Evolving Industry

Worldwide and within the U.S., concrete, metals and plastics are the most easily recycled, which may be the reason why they are rarely salvaged. Masonry and wood are recycled less in most cases because only crushed or chipped product is desired. These two also often have high salvage and reuse potential.

“I would think structural steel would be salvaged more often, but there is likely a stigma against reusing structural materials for safety reasons,” Hartsig said.

Masonry and wood are recycled less in most cases because only crushed or chipped product is desired. These two also often have high salvage and reuse potential.

Gypsum board, carpet and insulation aren’t salvaged much at all, but they are occasionally recycled where the infrastructure exists. These products are often contaminated or soiled and difficult to separate from other waste.

“Polymer materials (PVC, plastic piping, insulation, carpeting) are not commonly recycled since there is not much economical return on recycling these products which is ultimately due to very little that can be done with these wastes beneficially,” Beck said.

Construction and demolition recycling tends to cost more money in areas where recycling isn’t required. In areas where it is required, it’s often a money saver or even a profit center. Because processing facilities are generally more common in these areas, volume is high and industries form around reprocessing that material, especially if there isn’t an easy source of raw material.

There are incentives for building companies to recycle their waste materials (i.e., tipping fees at MRFs are waived/reduced for certain materials), and there is money to be made on recycling metals. Again, if the community or area does not have a material recovery facility, then wastes are landfilled and are subject to landfill tipping fees.

On the Horizon

Beck predicts recycling rates will continue to increase as more and more management methods are found that are profitable.

“I still think that the biggest obstacle will be implementing recycling in areas without the appropriate technology and waste management methods for C&D waste materials,” Beck said.

Mitchell also does not see strict recycling practices being incorporated into the construction industry’s business models unless there is a large upside monetarily or the government, whether local or national, forces companies to adhere to certain regulations.

“It needs to be easier to recycle for construction businesses whether that means easier methods to separate what can and can’t be recycled in the recycling yards or more efficient means to

have the materials picked up or dropped off,” Mitchell said.

Hartsig projects a steady, universal upward trend in the quantity and variety of materials recycled: first in the easiest materials to recycle (metals and plastics), then in comingled separation facilities and then the lower demand materials, with a rising but overall contained trend of sustainability-minded industries setting themselves up to accommodate and profit from buy-back programs.

“Two major drivers of these trends are the rising costs and risks in raw material extraction and dumping waste,” Hartsig said. “The awareness and effects of these costs are having a more tangible result on the middle’s bottom line.”

All Eyes Ahead

The CDRA keeps its fingers on the proverbial pulse of the recycling industry. Recently the CDRA responded to

the Connecticut Public Utilities Commission on whether to issue credits for the use of C&D wood as a fuel product. Legislation later made sure this happened.

CDRA was awarded a second US EPA grant to work to overcome barriers to the acceptance of post-consumer recycled asphalt shingles.

And CDRA worked with the Army Corp of Engineers to study the effects of crushing concrete and asphalt containing lead-based paint. Some regulators have questioned the safety of this process.

Ongoing efforts include working with the Federal Highway Administration to identify barriers to increase recycled concrete usage in highway projects. This includes understanding state Department of Transportation objections and obstacles.

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