



FOCUS: Waste

Single stream: Is there a better way?



WHAT'S INSIDE

- Detroit Lions QB teams up with Repeve to recycle. Page A6
- USW paper workers ratify master agreement. Page A9
- Wise Metals sold for \$1.4 billion. Page A15
- Pull-a-Part captures record number of mercury switches. Page A16
- Global industrial waste market to double by 2020. Page B5

Events Calendar.....	4
Scrap Metals MarketWatch.....	15
Salvaging Millions.....	16
Business Briefs.....	18
New Product Showcase.....	20
AR Classifieds.....	20
Equipment Spotlight.....	B4
A Closer Look.....	B6

PRSR STD
U.S. Postage
PAID
Columbia, MO
Permit No. 353

11.2014

CHANGE SERVICE REQUESTED

American Recycler

900 W. South Boundary, Bldg. 6
Perrysburg, OH 43551-5235

More big batteries enter recycling stream

by MIKE BRESLIN

mbreslin@americanrecycler.com

When people think about big batteries, they usually think about lead-acid automotive batteries, but these are only one type of battery coming to scrap yards these days, like those from electric vehicles (EVs) and from backup storage arrays. While larger batteries represent a significant opportunity for recycling, recyclers must become more aware of the differences between lead acid and other chemistries in order to be safe, responsible and profitable.

Different chemistries

Most recyclers know how to handle lead-acid batteries. Lead-acid batteries are the most recycled product in America. According to the Battery Council International, 97 percent of battery lead is recycled and a typical new battery contains 60 to 80 percent recycled lead and plastic. Lead-acid batteries are a “closed-loop” process with a 99 percent recycling rate. Compare that with a recycling rate of 75 percent for scrap tires, 66 percent for paper and 55 percent for aluminum.

Even today with lithium-ion batteries much in the news relating to powering EVs, lead-acid batteries are required for most EVs for starting, lighting and ignition. EVs will simply not start without them. And, lead-acid batteries still lead the field as the lowest cost of energy and power output per kilowatt hour.

According to a study by Sandler Research, the lead-acid battery market is expected to grow at a compound annual growth rate of 3.5 percent from 2013 through 2018. Battery industry experts predict even stronger growth. According to the study, one major market driver is the development of absorbent glass mat (AGM) lead-acid batteries, which are virtually maintenance free.

But lead acid batteries are no longer the only game in town. Other chemistries, particularly large, lithium-ion batteries are entering the recycling stream.

Another study by Navigant Research predicts a steady increase in sales of EVs, particularly those using lithium ion batteries. According to the study, worldwide revenue from



A 3 megawatt energy storage system at Lyon Station, Pennsylvania is one of 16 energy storage projects selected by the US Department of Energy under the Smart Grid Storage Demonstration Program. It uses a long-life storage device containing an ultracapacitor and a lead-acid battery.

PHOTO COURTESY OF EAST PENN MANUFACTURING

lithium-ion batteries for EVs will grow from less than \$6 billion in 2014 to over \$26 billion in 2023. In the short term, however, the most significant impact for recyclers may not be from EVs, but from large-scale energy storage installations.

But with more battery chemistries to be recycled, there will be problems. East Penn Manufacturing, a privately-held company, operates the world's largest single site, lead-acid battery manufacturing facility and markets more than 450 types of batteries and related products. Donna Snyder, vice president of marketing and advertising at East Penn explained some of the hazards:

“Mixing lithium batteries with lead-acid batteries is a serious and potentially very dangerous situation. In the past, it was fairly easy to visually identify the difference between them. Now, it is common to replace battery chemistries in applications without being able to discern the differences. There are known safety considerations specific to the transport of lithium ion batteries. To now have them commingled with lead-acid batteries, which have different packaging requirements, creates the possibility of significantly more transportation incidents. In addition, if the chemistries are not easily identifiable, there is the potential for

improper disposal and incidents in landfills across North America.”

Growing energy storage

Governments have forecast that their energy demands will double over the next decade and utilities are investing heavily in smart-grid technology in order to meet the huge demand for power forecast to be needed by 2020. This increased investment in the smart grid is driving the growth of the battery market because they are increasingly being used in massive numbers to store electricity for backup power to help stabilize the grid, not only when outages occur, but also to balance-out intermittent energy sources like wind and solar. As a result, part of the Federal investment in smart grid technology is likely to be directed toward the battery market.

U.S. electric utilities are also being pressed by public utility commissions to increase power storage capacity to deal with grid failure caused by equipment failures, weather related events and possible terrorist attacks. Late last year, California adopted the nation's first energy storage mandate. The state's three investor-owned utilities must collectively buy 1.3 gigawatts, or 1,325 megawatts, of energy storage capacity by the end of

2020. That is roughly enough energy to supply nearly one million homes. Different storage technologies have different rates at which they can accept and discharge energy, but lead-acid batteries are likely to be part of the solution due to economics and practicality.

Lead-acid batteries are used in stationary applications by electric utilities, telephone companies, computer centers, hospitals and the like to provide critical back up power to systems that need an uninterrupted power supply. These batteries are usually not called upon to deliver power often, but when they do, they need to deliver a lot of power, quickly and for a long enough time so reserve power generators can take over.

Microgrids, like one being built in Rutland, Vermont are modern, small-scale versions of the centralized electricity system. They are designed to achieve specific local goals, such as reliability, carbon emission reduction, the wider distribution and diversification of energy sources, and cost reductions. This microgrid, for example, will have four megawatts of battery storage, using both lithium ion and lead acid batteries to integrate solar generation into the local grid, and provide backup power in case of a grid outage.

See **BIG BATTERIES**, Page 10

IRON PACK BALER

REMOTE CONTROL • AUTOMATIC CYCLE

ALL IT TAKES IS ONE MINUTE
TO BALE A CAR!



NEW! BIG MOUTH SHEAR



- 2 Piece Cutting Tip
- 8 Cutting Edges per Blade!
- Low Operating Cost
- Flip the Tip without Rebuilding!

IRON AX ENVIRO-RACK

ALL ENVIRO-RACKS ARE MADE IN AMERICA WITH AMERICAN STEEL FOR AMERICAN-SIZED CARS.

THE ENVIRO-RACK IS THE MOST SUPERIOR
AUTO FLUID REMOVAL AND DISMANTLING
SYSTEM ON THE MARKET TODAY.

COMPLETE FLUID REMOVAL
IN LESS THAN 5 MINUTES!



IRON AX SHEAR PACKAGES

ALL SHEARS FEATURE 360° CONTINUOUS ROTATION.



Toll-free 877-247-6629

Fax 478-252-9030

Wadley, Georgia

Website: www.ironax.com

E-mail: ironax@ironax.com

EQUIPMENT READY FOR SHIPMENT TODAY

We have a NEW Doosan DX225 with a
NEW Iron Ax IA25R Shear mounted
and ready to cut iron.

We have a new Iron Pack Baler in stock
and ready to begin work.

Contact us for full details!



VIEW THE IRON AX YOUTUBE CHANNEL
TO SEE THE IRON PACK BALER
IN ACTION TODAY!

SMART and CTR support efforts to promote clothing recycling in New York

The Secondary Materials and Recycled Textiles Association (SMART) and its sister organization, the Council for Textile Recycling (CTR) have both agreed to sponsor an educational campaign being presented by the New York State Association for Reduction, Reuse and Recycling (NYSAR3). The boards of directors of both SMART and CTR voted in favor of providing financial and public relations support for the November campaign that will launch in conjunction with America Recycles Day on November 15.

executive director of SMART. “The textile recycling industry has been reusing and recycling clothing, sheets, towels, shoes, and other textile products for more than 100 years. Clothing was being recycled long before the environment became such an important issue to so many people.”

SMART is the international trade association of the for-profit textile and used clothing recycling industry, while the Council for Textile Recycling works to bring together all aspects of clothing recycling including manufacturers, retailers, consumers, academicians, and municipal employees.

"People don't realize that 95 percent of all used clothing and household textiles can be recycled," says Eric Stubin, president of the Council for Textiles.

tile Recycling. "If the items aren't reused as clothing, they can be cut into industrial wiping or polishing cloths, or they may be shredded and processed back to their original fiber content. Those fibers are then used to manufacture new items such as household insulation, car soundproofing material, carpet padding, stuffing for sports equipment or pet bedding, and many other products."

According to the Environmental Protection Agency's (EPA) most recent report on municipal solid waste (2012), 14.33 million tons of waste is generated annually that is exclusively clothing and other household textiles; of this amount 2.25 million tons, only 15.7 percent, is recycled.

Settlement results in pollution prevention for city

EPA Region 7 has reached an administrative settlement with Shine Bros. Corp., a commercial recycling facility in Spencer, Iowa, to resolve industrial stormwater violations under the Clean Water Act. Under the settlement agreement, the company will come into compliance with its industrial stormwater permit, pay a civil penalty of \$120,000, and remediate contamination that migrated from its facility to an adjacent public park.

Responding to complaints by concerned citizens, investigations by EPA and the Iowa Department of Natural Resources found that Shine Bros. Corp.'s stormwater structural controls

and best management practices were ineffective in controlling pollutants in stormwater. Investigation found that stormwater carried pollutants off the facility's property into Pete's Pond – an adjacent city park – and through the city's storm sewer system to the Little Sioux River.

Investigation also found that Shine Bros. Corp. failed to properly conduct periodic stormwater inspections or to provide appropriate employee training, in violation of the company's National Pollutant Discharge Elimination System (NPDES) permit.

To resolve the violations, Shine Bros. agreed to update and fully imple-

ment its Stormwater Pollution Prevention Plan, and move many of its operations into enclosed structures to greatly reduce the potential for pollutants to be exposed to stormwater. The company will also improve best management practices and upgrade stormwater structural controls.

The company also agreed to pay a civil penalty of \$120,000 and to remove pollutants from the city's park and around the banks of Pete's Pond that were contaminated by the company's stormwater runoff. In the spring, Shine Bros. Corp. will revisit the park to perform any additional needed cleanup and establish an appropriate groundcover.



WE'RE YOUR YEAR-END TAX WRITE-OFF HEADQUARTERS!

Order Early!



Skid Steer Universal QC



Replacement L-tines 42"-14"



Bucket Forks



ACS QC



3-Pt. Hook-up



Custom Assembly



Quick Coupler - JRB/IT



Shredder Forks



4-Pt. Hook-up



10-15 ft. Vertical Tines



Replacement Flat Tine

Most Items Shipped Same Day!

Excavator Grapples

SCRAP GRAPPLES

Extreme Duty

Skid Steer Buckets and Grapples



- 72" Skid Steer
- Small Loader Grapple

Loader Buckets and Grapples



36" Custom Grapple



Designed for 1½ to 3½ Yard Loaders Larger and Smaller Sizes Available!

- 96" Big Grapple
- Approximate Weight 2,500 Lbs.
- Lifting Capacity 25,000
- Tines 5/8"
- 2 Yd. and Up Loader



SKID STEER, FORKLIFT, AIRCRAFT, LOADER TIRES

PNEUMATIC AND SOLID

- ~ 100's of in-stock items
- ~ Heavy ply tires ~ Reduced flats

SM - Wide footprint for maximum contact and longer life. Ideal for use on dry asphalt and concrete surfaces.



LG - Wide footprint for maximum contact and longer life. Best for use in areas with sharp debris. Ideal for use on dry and wet asphalt or concrete surfaces.



DT - Wide footprint for maximum contact and longer life. Deeper lugs for a better bite. Ideal for softer soil conditions and dirt areas.



We Also Have:

- Wheels
- Tubes and Flaps
- Retread Tires
- Used Tires
- New Tires











BRco

BUD ROBERTS COMPANY, INC.

1-800-955-8288
678-546-8691 Local
 3027 Summer Oak Place
 Buford, Georgia 30518

budroberts.com
sales@budrobertsco.com

Ideal for Scrap and Auto Salvage Operations!

Deals On New And Used Equipment!

Recyclers answer the call to take part in safety stand-down day

Companies dedicated one hour per shift to safety training

Companies were asked by members of the ISRI safety leadership team to shut down operations for at least one hour on every shift to engage in safety awareness training in October. The training could take any form, from employee training to a management walk-around, or any other effective safety training method. This marks the first ever recycling industry Safety Stand-Down Day, an effort driven by the Institute of Scrap Recycling Industries (ISRI) in response to a series of recent fatalities and serious injuries.

"Never before has such a call to action been taken at ISRI. It is an ambitious undertaking, but if safety is to be

our number one core value, then having every recycler take one hour during each shift to educate employees about safety should not be difficult to ask," said ISRI chair Doug Kramer to members. "There have been at least 18 incidents in 2014 involving fatalities, all but two coming in the second half of the year. We must work together to end this disturbing trend, and it begins today."

ISRI provided its members with a series of Safety Training Guides, each based on the leading causes of industry fatalities in the last year: lockout tagout, struck by mobile equipment, striking overhead objects, confined spaces, and failure to use seatbelts.

Each guide included handouts and teaching aids such as videos, Power-Point presentations, and OSHA fact sheets.

"It is my goal to make Safety Stand-Down Day an annual event," Kramer concluded. "Let's be a leading example to other industries that through a dedicated effort it is possible to improve safety."

Find more information about Safety Stand-Down Day, including all of the Safety Training Guides, information on industry fatalities, and ISRI's Safety Outreach program on the ISRI Safety website.

Keep America Beautiful kicks off fourth annual Recycle-Bowl competition

Keep America Beautiful (KAB), a nonprofit that brings people together to build and sustain vibrant communities, has launched the fourth annual Recycle-Bowl youth recycling competition. The competition runs from October 20 through November 15, 2014, culminating on America Recycles Day.

Last year more than 1,500 elementary, middle and high schools around the country, representing nearly 690,000 students, participated in this race to collect the most recyclable material, and learn about waste reduction and environ-

mental responsibility through in-school recycling. Participating schools recycled 6.4 million pounds of material, which translates to 7.75 lbs. per capita. Foothill Elementary School in Pittsburg, California, was the 2013 national winner.

Registration for this incentive-based recycling competition is open to all public and private schools in the United States. Participating schools will track and report how much recyclable material they collect for a chance to win prizes.

At the close of the four-week competition, the national winner will receive

a recycled-content bench donated by Trex. The returning school that demonstrates the most improvement over 2013 will receive recycling bins from Busch Systems. Schools in each state (and the District of Columbia) that collect the most recyclable material per capita will be awarded their respective state title. Schools and local organizations are encouraged to host award ceremonies for state winners using the online award ceremony toolkit.

"Recycle-Bowl provides teachers with a great opportunity to integrate math, science and sustainability lessons into classroom curricula as well as a way to increase recycling at the schools," said Brenda Pulley, senior vice president, recycling, Keep America Beautiful. "Motivating and supporting students to recycle at school underscores the importance of recycling at home and on the go."

For a direct link to resources and activities, view this article on www.AmericanRecycler.com.

BALERS CRUSHERS BALERS CRUSHERS BALERS



2011 Sierra 5000 Baler
150 HP with 2,445 hours, orange peel grapple, air compressor. \$275,000.



2009 E-Z Baler
1,200 hours. Serviced and well-maintained. Located in Kentucky. \$105,000.



2012 OverBuilt Logger/Baler
Loaded - full rotation, air compressor, hydraulic landing gear. \$345,000.



2010 E-Z Crusher Elec. Stationary
248 hours. Fully automated. Like new. Located in Northern Iowa. \$90,000.

2001 Big Mac Crusher | \$65,000 Portable Automation, New John Deere Engine - Less than 100 hours.

1994 E-Z Crusher Elec. Stationary | \$35,000 No automation. Located in Northern IA.

More trades coming in weekly, check them out on our website!

OverBuilt INC

800-548-6469
605-352-6469
www.OverBuilt.com
sales@overbuilt.com



American Recycler
NewsVoice of Salvage, Waste and Recycling

877-777-0043 Fax 419-931-0740

Publisher and Editor

ESTHER G. FOURNIER
news@AmericanRecycler.com

Editorial Focus Section Editor, Production and Layout

DAVID FOURNIER, JR.
david@AmericanRecycler.com

Production and Layout

MARY E. HILL
mary@AmericanRecycler.com

Marketing Representatives

MARY M. COX
maryc@AmericanRecycler.com
MARY E. HILL
mary@AmericanRecycler.com

Circulation Manager

DONNA L. MCMANUS
donna@AmericanRecycler.com

Writers and Contributors

MIKE BRESLIN
mbreslin@AmericanRecycler.com
DONNA CURRIE
dcurrie@AmericanRecycler.com
MARK HENRICKS
mhenricks@AmericanRecycler.com
RON STURGEON
rons@rdsinvestments.com

Production Offices

900 W South Boundary, Bldg 6
Perrysburg, OH 43551-5235
877-777-0043 fax 419-931-0740
www.AmericanRecycler.com

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

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

© COPYRIGHT 2014 by American Recycler News, Inc. All rights are strictly reserved and reproduction in whole or in part is prohibited without prior written permission from the publisher.

Submission of articles, artwork and all photography must be accompanied by a self-addressed stamped envelope if a return of materials is wanted. Byline contributors' views should not be construed as representing the opinion of the publisher.

American Recycler reserves the right to edit any and all material submitted for publication. All Letters to the Editor must be signed and include a telephone number for verification. The editor of this publication does not accept responsibility for statements made by advertisers herein.



PRINTED ON
RECYCLED PAPER

Events Calendar

November 5th-6th

NERC Fall Conference. Lord Jeffery Inn, Amherst, Massachusetts.
802-254-3636 • www.nerc.org

November 14th

Recycling Energy Forum. Florida International University's Kovens Conference Center, North Miami, Florida.
305-348-3717 • www.recyclingenergyforum.com

November 19th-20th

Canadian Waste & Recycling Expo, International Centre. Toronto, Ontario.
770-984-8016 • www.canadian-waste-recycling-expo-us.messefrankfurt.com

January 20th-23rd

Compost 2015 Organics on the Rise: 23rd Annual Conference & Tradeshow. Renaissance Hotel, Austin, Texas.
301-897-2715 • www.compostingcouncil.org

February 25th-26th

Association of Postconsumer Plastic Recyclers Membership Meeting. Hyatt Regency, Dallas, Texas.
202-316-3046 • www.plasticsrecycling.org

EQUIPMENT WISH LIST



REB-1



REB-2

Definitely the Best
two-ram balers
around!

REB-1 & REB-2

Bales:
Aluminum, Extrusions,
Radiators copper wire,
OCC, PET, and More...

High Pressure Hydraulics
*Consumes less energy
*More baling force
Integrated Conveyors!!

Highest ram face
pressure in the
industry!



RB6000

RB6000
Highest Production in
its Class

Strongest and most
Durable Car Logger

Continuous Rotation
Crane - 5000 Lb. Lifting
capacity

1 IN STOCK
READY TO SHIP



T550 SL

T550SL
Shear/Baler/Logger
Extremely versatile and
very affordable.



T700

T700
Shear/Baler/Logger
Large shear production
small shear price

To Do
Contact Sierra
Increase Production
Lower Service &
operating costs
Increase \$\$\$

Should've done this
Sooner!!!



← Visit
Website

SIERRA

Ph. 661-327-7073 | USA. 800-343-8503 | www.sierraintl.com

PLASTICS

Detroit Lions QB teams up with Repreve to recycle

Unifi, Inc.'s Repreve®, a recycled fiber brand and the official recycling and sustainability partner of the Detroit Lions, has teamed up with Matthew Stafford to kick off their "Make The Smart Throw" campaign. In America, 70 percent of plastic bottles end up in landfills, oceans and parks, so this initiative encourages fans to toss their plastic bottles into recycling bins instead of trash cans. Repreve is a fiber made from recycled materials, such as plastic bottles, and the "Make the Smart Throw" campaign is the latest component of the brand's TurnItGreen initiative aimed at raising recycling awareness.

"As an athlete, I'm constantly drinking from disposable plastic bottles. I recently learned that when those bottles are recycled, with the help of Repreve, they can be turned into cool things we use every day," said Matthew Stafford, NFL quarterback for the Detroit Lions.

In 2013 alone, Repreve transformed more than 740 million recycled plastic bottles into fiber, and since 2009, Repreve has recycled more than 2 billion plastic bottles into products made by some of America's favorite brands, including Ford, Haggard, Polartec, Quiksilver and Volcom. In an effort to recycle even more bottles, Repreve and the Lions are calling on fans to help the team reach its target 100 percent recycling rate during the 2014 season. To help achieve this goal, they have added

500 Repreve branded recycling bins throughout Ford Field, and feature in-stadium PSA's with Stafford highlighting the importance of recycling.

Stafford is also challenging fans to demonstrate how they "make the smart throw" by encouraging consumers to submit trick-shot videos that show them throwing plastic bottles from an incredible distance or crazy height, throwing blindfolded or even behind-the-back into recycling bins. The top ten entries displaying the most creative recycling shots will be featured on Repreve's Facebook for fan voting. The grand prize winner will receive a trip for two to the Detroit Lions December 7, 2014 game against the Tampa Bay Buccaneers, including an opportunity to meet Stafford and compete against him in a head-to-head "Make The Smart Throw" bottle throwing contest, which will be featured in front of 65,000 fans on the video screen at Ford Field and in various social channels. Videos should be submitted to facebook.com/repreve and should be tagged with #makethesmartthrow and #repreve.



Will you create and submit a video to win Lions' tickets?

View this article on AmericanRecycler.com and **vote** today, then share your video on our facebook page!

APR releases final report of Sleeve Label Working Group

The Association of Postconsumer Plastic Recyclers released the Final Report of the Sleeve Label Working Group detailing recommendations the packaging industry can use to mitigate the impact of sleeve labels on the recycling of PET bottles. Formed in 2013, the APR Working Group represented all segments of the recycling industry and label supply chain, including PET reclaimers, brand owners, material suppliers, equipment vendors and testing labs. Their primary focus was the growing technical issues associated with recycling containers with full wrap shrink sleeve labels.

"Recyclers were seeing more and more containers with full wrap shrink sleeve labels contaminating their material," said John Standish, technical director of APR. "We formed a group to clearly identify steps that would allow brand owners to take advantage of these labels without creating a negative impact on the quality of the PET stream."

"Unfortunately, these labels serve as a great marketing tool, but they essentially render the container non-recyclable," commented Byron Geiger, president of Custom Polymers PET, and chairman of the APR Technical Programs. "Sorting technology was unable to identify the resin type of the container if it had a full wrap label, thereby not separating it out appropriately, resulting in a contaminated stream of material. It was a significant problem."

Key recommendations of the Working Group include:

- Employ sleeve labels that will float in water and separate from PET flakes in a sink/float material separation step.
- Employ printed labels where the label inks do not stain PET Flakes in the wash/rinse step.

- Use APR's Critical Guidance Document for Shrink Labels for PET Bottles as a comprehensive laboratory test program to assess the impact of a label on recycling PET Bottles.

- Where possible, use a sleeve label that leaves at least 20 percent of the PET bottle surface area exposed. This allows the most accurate auto-sortation by the broadest range of installed color sorters.

Although the problem is not completely solved, Standish pointed out that several label manufacturers have worked to create label stock that meets APR guidelines for removal in the wash system, which reduces the problem. "While we have a ways to go, the market is responding and working with APR to create guidelines that provide for the continued use of a full wrap label that meets the needs of the recycler. As the market evolves, we are hopeful more and more companies adopt this new label innovation for use with their products," he added.

APR has worked with label manufacturers that developed TD and MD shrink label technology available today that meet APR Critical Guidance.

COPPER CABLE GRANULATORS



COMPACT MACHINES from 200 lbs/hr - 3,000 lbs/hr with Turbo technology

- 99.9% Separation of the copper from the plastic without having to re-run
- Bulk loading by the pre-shredder
- Capable of processing any type of cable including car wire, data cable, armored cable

Call for a free demo at one of our operating sites!

Crow Environmental
Recycling Solutions

Mason Smith 540-255-4909
www.crowenvironmental.net

ELECTRONICS

1800Recycling.com partners with Call2Recycle for enhanced battery recycling

1800Recycling.com, an interactive website dedicated to enhancing and democratizing the consumer recycling experience, has announced a new partnership with Call2Recycle, Inc., North America's first and largest consumer battery stewardship program. As part of the partnership, Call2Recycle and the 1800Recycling team will work to enhance the current battery recycling portion of the 1800Recycling system, including the integration of Call2Recycle's U.S. public battery collection network into 1800Recycling's current database. By combining the strength of the two organizations' reach, the public will undoubtedly

benefit from heightened awareness and easier access to battery recycling collection sites.

Since 1996, Call2Recycle has diverted more than 85 million pounds of batteries and cell phones from the solid waste stream and established over 34,000 collection sites throughout the U.S. and Canada. It is also the first program of its kind to receive the Responsible Recycling Practices Standard (R2) certification.

Via its mobile application, online resource and phone service, 1800Recycling.com provides information about recycling services and facilities to anyone, anywhere by ZIP code.

Best Buy doubles recycling pledge

At its corporate campus in Richfield, Minnesota, Best Buy celebrated the landmark achievement of one billion lbs. of e-waste recycled in 6 years by customers. The company also shared an ambitious new goal to collect an additional two billion lbs. by 2020.

Best Buy has now set its sights on helping more consumers recycle large and cumbersome products that are difficult to dispose of and they may not know their options, such as large TVs and appliances. Additionally, Best Buy will continue to recycle most consumer electronics at all of their large format and specialty stores for free.

Best Buy's new goals were determined by research that confirms the growing need for convenient and free recycling options. A recent national survey of 900 plus men and women revealed that:

- Most people (61 percent) don't recycle because they don't know where to take materials, it's a hassle or it costs money.

- 39 percent of people say they recycle their electronics now, but nearly twice as many (70 percent) say they intend to so in the future.

- The majority (64 percent) of those who do recycle their electronics tend to wait until their devices stop working before they recycle.

Built to Last

BY
SAS Forks



FOLLOW US ON TWITTER
@SASFORKS

877-SAS-FORK
(877-727-3675)

Paul@sasforks.com
E-mail: Adam@sasforks.com
Casey@sasforks.com

www.sasforks.com

FEWER FINES = MORE PROFITS



Process copper, aluminum, magnesium, and other non-ferrous metals with minimum fines.

Our machines handle:

- Sheet • Extrusions • Wire & Cable
- Forgings & Castings

Why your next scrap metal recycling system should include a Saturn®.



Saturn Hybrid-Drive Shredders
(single/dual/quad)



Saturn Grizzly
Super 80 Granulator

Learn more about these reliable systems for non-ferrous metal scrap recycling.

Call Granutech-Saturn Systems today or visit us online:

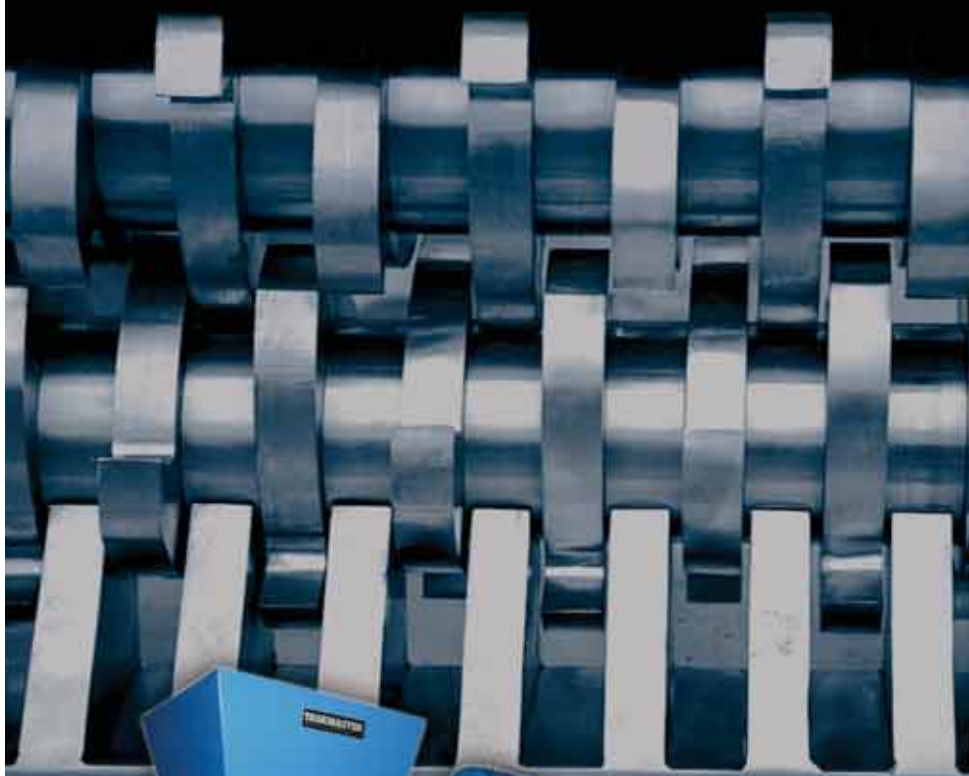
866-247-9036
granutech.com

SATURN



TASKMASTER® SHREDDERS

**Reduce Solid Waste, Hard Drives,
Tires, Documents and More!**



**Taskmaster
Solid Waste
Shredder®**



**Taskmaster®
Document Shredder**



**Taskmaster®
Tire Shredder**

**Call Today!
1-800-932-0599**

see the difference...

**Franklin
Miller®**

www.franklinmiller.com

60 Okner Parkway, Livingston, NJ 07039 USA
TEL: 973-535-9200 FAX: 973-535-6269 info@franklinmiller.com

ELECTRONICS

Funding awarded to recycle e-waste along Mexican border

The U.S. Environmental Protection Agency (EPA) is awarding over \$8.6 million in grants to fund environmental improvement projects along the U.S.-Mexico border.

The EPA funds were awarded in partnership with the North American Development Bank and the Border Environment Cooperation Commission to advance commitments in the U.S.-Mexico environmental collaboration known as the Border 2020 Program. These grant awards are in addition to 7 environmental improvement projects announced earlier this year along the California and Arizona U.S.-Mexico border, which leveraged an additional \$425,500 from the recipient organizations.

Border 2020 is a bi-national collaborative effort with a mission to protect human health and the environment along the U.S.-Mexico border. The North American Development Bank and the Border Environment Cooperation Commission are international organizations established to preserve, protect, and finance environmental infrastructure projects in the U.S.-Mexico border region. To date, EPA has invested \$597 million in border environmental programs.

Border Environment Infrastructure Fund

EPA is providing \$5 million to the North American Development Bank for the Border Environment Infrastructure

Fund, which funds the construction of drinking water and wastewater infrastructure along the U.S.-Mexico border. Projects along the California, Arizona, New Mexico, and Texas border regions will receive funding based on a selection process conducted by EPA with assistance from the Border Environment Cooperation Commission.

Border Wastewater Treatment Plant Upgrade

The City of Holtville, California will receive \$3.5 million from the Border Environment Infrastructure Fund to upgrade its wastewater treatment plant. The \$11 million project is jointly funded with a \$4 million California Clean Water State Revolving Fund grant and a \$3.5 million loan. The project will reduce ammonia pollution discharges to the Salton Sea.

Electronic Waste Management

Fundación Hélice, a non-profit environmental organization, will use \$52,500 in EPA Border 2020 funds to address the growing need to manage discarded electronics (e-waste) in an environmentally protective manner. The project will build capacity to collect and recycle e-waste, using internationally recognized best management practices, and divert these materials from landfills and dumps in Mexicali, Baja California, potentially affecting the New River watershed. Similar projects are being implemented in the Arizona-Sonora border region.

CLOSED-DOORS

TWO-RAMS

AUTO-TIES

IBC offers a complete line of balers for paper, plastics, non-ferrous and more. Custom-built for your application.



International Baler

JACKSONVILLE, FL
1-800-231-9286
SALES@INTL-BALER.COM

www.intl-baler.com

PAPER

AF&PA releases paper reports

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

Containerboard

Containerboard production was flat compared to July 2014 and 1.2 percent lower than August of last year. The month-over-month average daily production was also flat. The containerboard operating rate for August rose slightly to 96.2 percent from July's 96.1 percent.

Kraft Paper

Total Kraft paper shipments were 120.1 thousand tons, 1.9 percent lower than last month. Bleached Kraft paper shipments decreased from 9.6 thousand tons in July to 8.7 in August, while unbleached Kraft paper shipments decreased slightly from 112.8 thousand tons to 111.4. Overall, shipments for the first 8 months of 2014 were 3.5 percent lower than the same period last year. Total month-end inventories increased 6.3 percent compared to July.

Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased 7 percent in August compared to August 2013, with total paper inventories remaining unchanged compared to July.

•Uncoated free sheet (UFS) paper shipments in August decreased 11 percent compared to August 2013. YTD shipments are down 9 percent in 2014. Imports of UFS increased 38 percent in July and were up 23 percent in 2014.

•August coated free sheet (CFS) paper shipments decreased 7 percent compared to 2013. YTD shipments of coated freesheet grades are down 2 percent. Exports of CFS papers increased 3 percent in July, the third year-over-year monthly increase in 2014.

•Uncoated mechanical (UM) paper shipments increased 7 percent in August, the seventh consecutive month of year-over-year increases. Year-to-date shipments of UM are up 5 percent compared to 2013.

•Coated mechanical (CM) shipments in August increased slightly less than one percent relative to August 2013 and are down 5 percent for the year. Exports of CM grades increased 54 percent year-over-year in July and are up 5 percent compared to the first seven months of 2013.

Paperboard Report

Total boxboard production increased 1.1 percent when compared to August 2013 and increased 0.8 percent from last month. Unbleached Kraft Boxboard production increased over the same month last year but decreased compared to last month. Total Solid Bleached Boxboard & Liner production increased when compared to August 2013 but decreased compared to last month. The production of Recycled Boxboard increased compared to August 2013 and increased when compared to last month.

USW paper workers ratify master agreement with RockTenn

The United Steelworkers (USW) disclosed that members of 61 local unions at RockTenn facilities across the country voted by a large margin to ratify their first-ever master economic and security agreement that sets wage, pension, health insurance, health and safety and other provisions for about 6,000 workers.

"Our members in the paper sector, one of our union's largest, have made significant progress in developing a more efficient and effective process to negotiate improved contracts at RockTenn and throughout the industry," said USW International president Leo W. Gerard.

The USW represents over 100,000 paper workers in the U.S. at over 600 separate sites. Paper mills are often situated in rural communities and provide some of the highest-quality advanced-manufacturing jobs in the country. Converting sites are generally situated closer to metropolitan areas and are known for their progressive wage and benefit packages.

WE BUY FOIL LAMINATES

PAPER FOIL POLY FOIL BARE FOIL

~ We also buy surplus rolls ~

CONNECTICUT METAL INDUSTRIES

203-736-0790

sales@ctmetal.com

www.CTMetal.com

Invaluable Gifts are Hard to Find

Purchase a gift subscription for someone special today.



877-777-0043

www.AmericanRecycler.com

CALL BEFORE FOR THE HOLIDAYS!

WASTE

Cascade Cart helps fund the fight against Alzheimer's

Cascade Cart Solutions, a division of Cascade Engineering, is joining the fight against Alzheimers with the launch of its purple Alzheimer's Cart. Proceeds from the sale of each first-of-its-kind purple cart and bin will be donated to the Alzheimer's Association.

Recently debuted to thousands of municipalities at SWANA's 2014 WASTE-CON conference in Dallas, Texas, the Alzheimer's Carts are gaining interest across the nation. Available to communities nationwide, the purple, curbside recycling bins and roll-out carts feature the Alzheimer's Association logo and web address. The cart lids also include a permanent in-mold label with the Association's Know the 10 Signs® informational piece to help create awareness for the disease. Cascade has partnered with the

national Alzheimer's Association to ensure that \$5 from the sale of every purple cart and \$1 from the sale of each bin will be donated to the local Alzheimer's Association where the product was purchased.

The Alzheimer's Association projects that by 2050, an estimated 16 million Americans will have the disease, with a new case diagnosed every 33 seconds and costing \$1.2 trillion a year, making Alzheimer's the most expensive health crisis to ever face the nation. This means now, more than ever, funding research and support of the Association's mission is critical for a disease that currently can't be prevented, cured, or even slowed.

Alzheimer's carts will be available in several sizes to accommodate the varying offerings by municipalities and haulers nationwide.

Illegal dumping fought with grant

The US Environmental Protection Agency (EPA) has awarded Conejos County Clean Water, Inc. (CCCW) of Antonito, Colorado, a \$120,000 Environmental Justice grant to address illegal dumping in the San Luis Valley in southern Colorado.

Over a two year period, the project will identify illegal dumps and barriers to solid waste disposal and will strive to divert recyclables by establishing a recycling program.

The rural San Luis Valley is burdened by illegal dumping, in part due to the lack of local landfills. The regional landfill is 100 miles away from some communities and cost prohibitive for many. CCCW will work in a collaborative partnership with other agencies to address illegal dumping in Conejos and Costilla Counties. The grant will also result in a model that can be applied to the six county San Luis Valley.

■More WASTE news is available on page B1 in the Focus Section.

19,500 lbs./120 CA, exhaust brake, power windows/locks, power/heated mirrors, tilt/cruise, 40/20/40 split bench seat, keyless entry, touch-screen AM/FM/CD player w/steering wheel audio controls, 4-position OEM switch panel, 22 gal. mid-ship fuel tank, tubular cab steps, fog lamps, tow hooks, 4.88 limited slip rear axle, aluminum wheels, galvanized sub-frame, keyslot package, upper and lower work lights--call for details!

Hydraulic brake/spring ride, SLT - loaded GVWR - new - call for exact, tires new on 19.5" aluminum, Vulcan body/19.5" steel/steel tube Removable Rails Wheel lift/L-arms: 3,000 lbs./Vulcan scoops, PTO: hot shift, federal signal Legend LPX 14-head LED with S/T/T, work lights, pylon: standard steel, tool box: 48" all stainless steel w/galvanized mounting brackets, accessories: galvanized sub-frame.

Engine/transmission: Hino J08E-VC - 220 horsepower/Allison 2200RDS automatic - 6 Speed, air brake/air ride, interior loaded, GVWR/cab to axle: 25,500 lbs./144 CA, make/body/rails: Vulcan/21.5" steel LCG/steel tube removable rails wheel lift/L-arms: 3,500 lbs./Standard, PTO: hot shift, light bar: federal signal legend LPX 14-Head LED with S/T/T & work lights.

Exhaust brake, power windows/locks, power/heated mirrors, tilt/telescoping wheel, cruise control, CD player, air ride drivers seat, cold weather package includes block heater and air dryer, chrome package - includes chrome bumper, grille & mirrors, 50 gal. aluminum fuel tank, stainless steel simulators, key slot package, upper/lower LED work lights, chain package, call for details!

ALL CHASSIS AND BODY MAKES AND MODELS AVAILABLE, INCLUDING INDUSTRIAL CHASSIS AND BODIES

888-538-0800 / www.lynchtruckcenter.com



Towing & Recovery

29000 Sharon Lane Waterford, WI 53185



CENTURY

2015
DODGE
5500
SLT!



2015
HINO
258ALP!

Big batteries

■Continued from Page 1

Worldwide, Navigant Research forecasts that revenue from deployments of microgrids which were just under \$10 billion in 2013 will increase to more than \$40 billion by 2020.

To get a better understanding on the use of batteries by electric utilities, American Recycler News called upon Haresh Kamath, program manager for energy storage at the Electric Power Research Institute (EPRI). EPRI is a nonprofit organization funded by the electric utility industry that conducts research on issues related to electric power.

"The uses for lead-acid batteries are growing," says Kamath. "They are being used more on the grid than they have been. Historically, they've been used in backup power, but more recently they are being used for frequency-regulation type applications and localized peak shaving, which is something we have not seen in the past. A lot of this is being driven by the low price of lead-acid batteries and their ready availability, as well as increased value for those kinds of services on the grid. The interest in using batteries on the grid is also being driven by the decline in the prices of batteries in general, particularly lithium-ion."

However, lead-acid batteries are already extremely inexpensive. People looking to use lithium-ion are often surprised to learn that lead-acid can be even less expensive.

"For solar solutions on the customer side of the meter, there are definitely applications for batteries, lead acid and other sorts. There are also large scale battery applications for both wind and solar, especially on islands like Hawaii and Puerto Rico where there are just a few traditional generators feeding the grid and there are few ways to balance the upswings and downswings of the variability of solar or wind without having some sort of storage. On island-type networks there's very strong value for battery backup. On our mainland grid you don't have the same kind of battery value because generators are relatively small compared to the entire size of the grid, so you get a lot of stability from just geographic dispersion.

"There's still some value in having energy storage on the grid – even on a large one. In particular, if you have a residential solar array with battery backup, it allows you to have more reliable power for yourself and not put power on the grid when it's not needed. This actually makes the grid stronger, more distributed and the homeowner more resilient."

Lead-acid batteries have an early and strong hold in the energy storage market because of lower cost and recycling advantages, and there are many large-scale demonstration projects completed by electric utilities across the country.

"Lead-acid is one of the most mature technologies," Kamath continued. "There has been a couple of large demonstration, lead-acid battery storage projects sponsored by the Department of Energy. There's one in New Mexico of 10 megawatts and another 10 megawatts in New Jersey," Kamath concluded.

The world's second largest battery by rated power is an advanced lead-acid battery in Goldsmith, Texas. This 36 megawatt battery system is used to manage intermittency at the 153 megawatt Notrees Wind Power Farm project in western Texas and provides regulation service in the Texas wholesale power market.

From a smelter's perspective

There are relatively few lead-acid battery smelters because it requires a very good understanding of recycling and experience to be able to handle this toxic material safely.

Timothy W. Ellis, Ph.D. is president of RSR Technologies, headquartered in Dallas, Texas. RSR Corporation is an independent, privately-held secondary lead smelting company that operates lead acid battery recycling facilities in California, Indiana, and New York. RSR ensures that lead-acid batteries are recycled into refined lead without harming people or the environment.

"When you get about 10 percent of the grid power coming for renewables then you really have to have some kind of grid storage to compensate for when wind and solar power are weak," said Dr. Ellis. "I think that sector is going to grow, but the bigger opportunity right now for lead-acids is probably in frequency matching or regulation because the grid has to stay in electrical balance. The problem is with conductive losses across the grid that

moves the frequency around, which isn't good for motors and other electrical equipment. So frequency regulation is really a big growth area in the new smart grid where they can manage the power cables better, particularly using the new ultra batteries with integrated super capacitors."

RSR collects batteries in two basic ways. They purchase from scrap metal dealers, collectors, car wreckers in what RSR calls buy-sell – they buy the scrap, convert it into lead and sell the lead. The other way is toll converting where RSR is supplied feedstock by battery companies that collect their own scrap and sends it to RSR for conversion into lead which is sold back.

"I also think there's a future for lead-acid batteries in mild-hybrid electric vehicles, that some people call the 48-volt mode or 60-volt mode," Ellis predicted. "This is where you have a lead-acid battery, one to two kilowatts in size that provides a little bit of electrical assist on acceleration. Much like a Honda Insight, but it does not have much of a range on electric power only. I think that's pretty good, because the cost of the car purchase is what's important.

"Remember, the lead industry is very interesting because lead is the most recycled metal on the planet. And, a significant amount in the western world is accumulated in the economy. Everybody in the economy owns, nominally, about 150 pounds of lead because lead is used all over the place like in forklifts, cell phone towers, grid regulation and in cars. That's really a direct need that everyone in the country shares. The problem is when you get into applications where weight is an issue, like with electrified vehicles, because lead is heavy. Remember, forklifts, mining equipment and golf carts mostly all use lead-acid batteries.

"But lead-acid batteries are still needed in most electric vehicles for starting, lighting and ignition applications; even though the main traction battery may be lithium-ion. For example, the Honda Insight, the Toyota Prius and the Chevy Volt all have lead-acid batteries that take care of what is called the "hotel mode" and also used to make sure the lithium-ion batteries stay charged. In fact, there are some European premium electric cars that have two lead-acid batteries, one to handle the start-stop functions and another for

hotel mode loads like making sure the radio and the GPS have power. Lead-acid batteries are probably in 99.9 percent of the vehicles built in the world, including the electrics.

"One thing that battery recyclers really need to know is that mixing non-lead acid chemistry with lead-acid chemistry is a major safety problem. The International Lead Association did a survey of their members. Of the 26 members surveyed, 25 had either fires or exposure incidents where lithium-ion batteries got into the lead-acid collections. The two chemistries are not compatible. Mixing them can result in fire and explosions.

"I also head-up the Society of Automotive Engineers (SAE) Battery Recycling Committee and it's a big, important issue now because there are lithium-ion batteries that look just like lead-acid batteries. At RSR we handle a hundred thousand batteries per day and it's extremely difficult to tell which one is which. We rely on the people we buy scrap from to segregate the different types.

"All these battery technologies are eventually going to show up at scrap yards. But now you have issues with these big, lithium-ion batteries and these new advanced automotive super capacitors. There's a lot of juice in them. If someone grabs one wrong, like a Chevy Volt lithium-ion battery, with a front-end loader, or grapple, it could short-out and cause serious problems. I think the dismantlers are going to have real safety and segregation issues in handling, storage and shipping. You also don't want these to get into a crusher, shredder or hammer-mill."

A lithium-ion traction-battery for a Nissan Leaf all-electric vehicle, for example, weighs 600 lbs.

"As lithium-ion batteries get more common in smaller formats, like automotive sized batteries, e-bikes, motorcycles and utility batteries, the recyclers begin to have problems as these types come in the door," Ellis warns. "Their suppliers may not segregate different types. Spent lead-acid batteries are purchased on the open market because the lead has value. For the lithium-ion battery the elemental value is relatively low.

"Because lithium-ion batteries have very little, if any, scrap value, they have to be paid for to be disposed. If there is cobalt or nickel in them, people will take them because there is some value. But if they are manganese-oxide or iron-phosphate batteries, the steel smelters don't even want them because they cause problems in making steel. Most of these have to be paid to be disposed, and the cost can be very high.

"Some batteries have labels on them to identify what type they are, but it's not very consistently done. If you open up a big battery case from an electric vehicle, the outside case may be marked as to what type of battery it is, assuming the label is still there, but the individual cells inside may not be marked. It makes it more difficult for recyclers to gather whatever value they can.

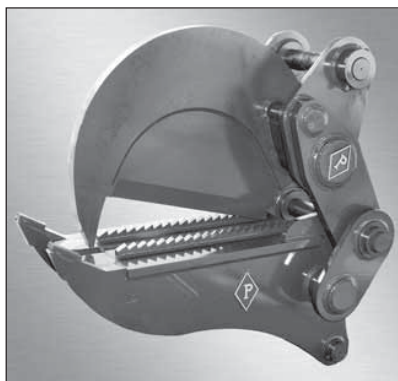
"Frankly, I would like people from the scrap recycling industry to join our SAE Battery Recycling Committee so we can all get maximum value from recycling all types of large batteries and protect ourselves from hazardous incidents in mixing battery chemistries," Ellis urged.

ATTACHMENTS for ORGANIC WASTE

**WOOD SHEARS
EXCAVATOR STUMPERS
LOG FORKS with CLAMP
PIPE-n-POLE FORKS
MILL YARD FORKS
GRAPPLES**



Quality Attachments Since 1978



800-393-6688
Pembertonattachments.com

Call Shaughnessy

All 50+ Canada: 800-549-0490
CALLSHAUGHNESSY.COM

Strip-Tec Alligator Shears/Wirestrippers/Granulators

Wire stripper recond. CSX001 - Save \$300!

ALCAN Flatteners / Blowers and Densifiers
Looking for rebuildable Alcan Densifiers

ALCAN ALUM CAN DENSIFIER CP1200.
Call for details!

NEW USA-made 7" HYD. Alligator Shear. \$5,500

Guillotine shear, steel-belt
conveyors w/stacker. \$35K

SIERRA 500T Shear/Logger/Baler
w/Conveyors, needs work. REAL DEAL!

COLMAR 700T Diesel
Shear/Logger/Baler w/Grapple. Call!

Colmar 3210 Portable Logger Baler, CALL!

E-Z Logger portable diesel w/crane, good
running condition, under \$60k

Available Now: Steel Belt Z PAN Conveyor
60" x 26', very strong in good condition.



Over 2.3 Billion Lbs of Scrap...



...have been sold on this website.

www.GovLiquidation.com

**Government
Liquidation**
A LIQUIDITY SERVICES MARKETPLACE

**DEALER FINANCING
NEW EQUIPMENT FINANCING
USED EQUIPMENT FINANCING
PRIVATE SALE FINANCING**

DADE
Capital Corp.



DADE Capital Corp.
800-823-9688
Perrysburg, OH

GREAT RATES!



**Visit www.DADECapital.com
for more photos
and other available equipment.**



2011 FUCHS MHL335

Equipped with a 5-tine grapple and 48" magnet. Almost NEW with only 200 hours and grapple never used. \$310,000



KOEHRING 6630 SK MATERIAL HANDLER

Koehring 6630 SK material handler with 15kW hydraulically driven genset. 8.3 Cummins power. \$47,500



2008 AL-JON 400XL LOGGER BALER

Can be seen in operation. \$210,000



2011 HITACHI 225LC W/SHEAR

2011 Hitachi 225LC with 2012 Genesis GXP300R shear. \$196,000



2000 GENESIS GMS 400 SHEAR

Completely rebuilt by dealer. Very nice shear at a very good price. \$68,000



OBERLANDER 1650 TON SHEAR

Good operating condition. \$650,000



2003 CATERPILLAR 330C

In great operating condition. \$99,000



2005 LABOUNTY MSD4500R ROTATING SHEAR

Rebuilt like new. \$110,000



2008 AMERICAN PULVERIZER 72 x 72

Slow speed rip shear shredder with two John Deere 375 kw gen-sets. All trailer mounted. \$550,000



1988 AL-JON 400 METAL BALER

Great price! Recently painted and reworked. \$70,000



COLUMBUS MCKINNON 2.2 TIRE SHREDDER

Complete with classifier. The cutter box was completely rebuilt by CM in 2013. \$280,000



2006 AL-JON 400 XL METAL BALER

7,600 hours. Good condition and immediately available. \$195,000



2006 LABOUNTY MSD 3000 SHEAR

Being completely rebuilt. \$68,000



2007 SENNEBOGEN 850M W/ GENSET

16,665 hours. Engine replaced 11,766 hours. \$168,000



WILLIAMS 60 X 60 METAL SHREDDER

1,500 hp EMD Diesel power complete shredding system and spare parts. Great price! Call for all the details. \$495,000



2002 FUCHS MHL 360

Good condition. Fresh motor and main pump. \$155,000



HOFFMAN 87 x 106 AUTO SHREDDER

New Hoffman 3000 HP 87 x 106 auto shredder. Complete through UMO. New and never assembled. Immediately available. Call! \$495,000



2008 ELECTRIC AL-JON 400XL BALER

2,750 hours. Includes Lincoln Quik Lube. \$225,000



2013 SIERRA T750L SHEAR/LOGGER/BALER

Portable shear/logger/baler with 750 ton shear. 1,900 hours. \$725,000



2008 BIG MAC CAR CRUSHER

Car crusher with "QS" quick setup. \$68,000

READY TO SHIP!



Harris BSH 1335-Ton Shear

This Harris 1335-ton shear was completely rebuilt only months before it was *professionally* decommissioned and dismantled.

It is immediately available for sale and ready to be loaded on trucks, railcars or sea vessels.

\$550,000. USD



This shear comes with THOUSANDS OF DOLLARS in new spare parts!



METALS

Aluminum Association grows; board members added

The Aluminum Association has disclosed membership growth, additions to its board and the election of a new member to its leadership team. The announcements were made during Aluminum Week 2014: "Driving Modern Manufacturing" – the Aluminum Association's annual meeting.

The newly announced member companies are A J Charnaud & Co, Fromm Packaging Systems, Herkules North America and Herr-Voss Stamco. Expanding its leadership team, the trade group elected Michelle O'Neill, Alcoa's vice president of Government Affairs and Trade Policy, as its second vice chairman.

Aluminum Week 2014 focused on Aluminum's impressive demand funda-

mentals, as well as industry investment in the U.S. Since 2013, the aluminum industry has announced domestic plant expansions expected to generate nearly \$1.4 billion of investment and to create more than 1,000 full-time and temporary U.S. jobs. This surge in investment is primarily intended to meet projected automotive sector demand growth.

Member company additions will bring total membership to 98 companies consisting of 48 producer members and 50 associate, or supplier, members.

The Aluminum Association also approved the nomination of Michelle O'Neill, vice president of Government Affairs and Trade Policy for Alcoa. O'Neill will join Association chairman

Smith and vice chairman Garney Scott, president & CEO of Scepter, Inc. on the Association's leadership team – providing strategic guidance and direction on Association activities.

O'Neill serves as the Alcoa's top government liaison executive in Washington, D.C., leading the company's federal and state government affairs activities. She previously served as the Deputy Undersecretary for International Trade at the Commerce Department and was recognized with the 2012 presidential Distinguished Rank Award, the nation's highest civil service award, for outstanding achievement in public service.

Members named to the board of directors Class of 2017 were:

•Jack Pell, vice president – Commercial at Sapa Extrusions North America;

•Sean Stack, executive vice president and chief executive officer – Rolled Products North America at Aleris International; and,

•Buddy Stemple, chief executive officer – Rolled Products at Constellium.

Additionally, the Association named two new members to the Board Class of 2015:

•Erin Fauber, president at American Metal Chemical Corporation (AMCOR), and

•Michael Johnson, Senior Application Engineer at Clarcor Industrial Air.

Novelis opens world's largest aluminum recycling facility

Novelis officially opened the world's largest aluminum recycling center. Located adjacent to the company's rolling mill in Nachterstedt, Germany, the \$258 million recycling center will process up to 400,000 metric tons of aluminum scrap annually, turning it back into high-value aluminum ingots to feed the company's European manufacturing network.

Since 2011, Novelis has invested approximately \$500 million to expand recycling, doubling its recycling capacity to 2.1 million metric tons per year and raising its recycled content from 30 percent to 46 percent.

The Nachterstedt Recycling Center features state-of-the-art technology for aluminum scrap sorting, de-coating, melting and casting. The facility gives Novelis the flexibility to process a wide range of scrap types, creating a more efficient closed-loop recycling system. Approximately 200 employees will be needed.

Nachterstedt's central location within Europe provides the plant with access to efficient transportation networks. Aluminum ingots produced at Nachterstedt will be hot-rolled at Novelis' facilities in Norf, Germany, and Sierre, Switzerland, and then supplied to company operations across Europe for further processing.

Ben Weitsman of Rochester expands

Upstate Shredding – Weitsman Recycling has begun work on a state-of-the-art new steel warehouse at the company's Ben Weitsman of Rochester facility at 80 Steel Street in Rochester, New York. With three other new steel locations in Binghamton, Owego, and Ithaca, this addition expands the new steel division into the State's third most populous city. The opening of the new warehouse is scheduled for January 2015.

Once open in January, the new steel warehouse will stock and distribute structural, flats and rounds, plate and sheet, bar stock, tubing and pipe in steel, aluminum and stainless. The Rochester location will also saw cut and shear as

well as perform rebar fabrication. The warehouse will add several new jobs locally to support the planned increase in business for both new steel and scrap customers in the region. The company plans to be the low cost supplier to businesses and the general public in the Greater Rochester area as well as surrounding communities. Customers will have the option of coming on site to shop or place quotes and orders via telephone, fax or email. Delivery service will also be available for customers. Implementation of a new ERP system will tie all new steel locations together in order to keep inventory levels at minimums which will in turn lower cost for customers.

MOLEY MAGNETICS INC.

Recycling & Scrap Magnets, Shears, Grapples, & More...



MOLEY HYDRAULIC MAGNETS

- 5 Minute Install
- Various Sizes: 32" - 60"
- Hook-Up & Go
- Fully Enclosed
- Robust & Heavy Duty



MOLEY ALLIGATOR SHEARS

- Automatic Hold Down
- Light Non-ferrous to Steel & Iron
- Up to 26 Cycles per Minute
- 14" & 20" Models Available



MOLEY MAG II 24V

- No Generator Needed
- 26", 32", 36" & 40" + 32" Deep Wound
- Heavy Duty Steel Enclosure
- Simpler & More Reliable Mag Control System
- Installation is Very Simple



EXCAVATOR ORANGE PEEL GRAPPLES

- For all Types of Scrap Applications
- Sizes from .45 - .75 yards
- 4, 5 & 6 Tine Configurations

moleymagneticsinc.com

sales@moleymagneticsinc.com | 1 (844) M-MAGNET (662-4638)



METALS

Import data shows import market share at 28 percent

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 September total 3,879,000 net tons (NT). This was a 5 percent increase from the 3,678,000 permit tons recorded in August and a 6 percent increase from the August Preliminary imports total of 3,667,000 NT. Import permit tonnage for finished steel in September was 2,838,000, up 3 percent from the preliminary imports total of 2,768,000 in August. For the first 9 months of 2014 (including September SIMA and August Preliminary), total and finished steel imports were 32,513,000 NT and 24,267,000 NT, respectively, up 36 percent and 29 percent from the same period in 2013. The estimated finished steel import market share in September was 28 percent and is 27 percent year-to-date (YTD).

Finished steel imports with large increases in September permits vs. the August Preliminary included cold rolled sheets (up 40 percent), wire rods (up 30 percent), tin plate (up 26 percent), cut lengths plates (up 23 percent) and hot

rolled sheets (up 17 percent). Products with significant year-to-date (YTD) increases vs. the same period in 2013 include cold rolled sheets (up 83 percent), wire rods (up 81 percent), plates in coils (up 78 percent), cut lengths plates (up 63 percent), sheets and strip hot dipped galvanized (up 57 percent), sheets and strip all other metallic coatings (up 50 percent), heavy structural shapes (up 47 percent), hot rolled sheets (up 35 percent), mechanical tubing (up 31 percent), oil country goods (up 26 percent) and tin plate (up 19 percent).

In September, the largest finished steel import permit applications for offshore countries were for South Korea (407,000 NT, down 10 percent from August Preliminary), China (337,000 NT up 49 percent), Turkey (185,000 NT, down 12 percent), Russia (171,000, up 66 percent) and Japan (141,000 NT, down 14 percent). Through the first 9 months of 2014, the largest offshore suppliers were South Korea (4,033,000 NT, up 45 percent from the same period in 2013), China (2,350,000 NT, up 71 percent) and Japan (1,497,000, up 1 percent).

Wise Metals sold for \$1.4 billion

Wise Metals, a producer of aluminum can stock for the beverage industry, has been acquired by the Dutch firm Constellium for \$1.4 billion.

Constellium plans to invest up to \$750 million by 2022 to increase Wise's current hot mill capacity to 1.5 billion pounds from 1 billion pounds and build more than 400 million lbs. of dedicated Body-in-White (BiW), or car body, sheet finishing capacity.

Wise's earnings before interest, tax, depreciation and amortization (EBITDA) are expected to quadruple compared with 2013, once the investments in the facility are completed, driven by the addition of BiW production.

Constellium estimates that the North American market for BiW aluminum rolled products could grow from less than 220 million pounds in 2012 to approximately 4.5 billion pounds by 2025.

Steel imports decrease five percent in August

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,667,000 net tons (NT) of steel in August, including 2,768,000 NT of finished steel (down 5.0 percent and 10.2 percent, respectively, vs. July final data). Year-to-date (YTD) total and finished steel imports are 28,634,000 and 21,430,000 NT respectively, up 36 percent and 29 percent respectively, vs. 2013.

Key finished steel products with a significant import increase in August compared to July are reinforcing bars (up 191 percent) and wire rods (up 22 percent). Major products with significant YTD import increases vs. the same period last year include plates in coils

(up 85 percent), wire rods (up 78 percent), cold rolled sheets (up 73 percent), cut lengths plates (up 58 percent), sheets and strip hot dipped galvanized (up 56 percent), sheets and strip all other metallic coatings (up 52 percent), heavy structural shapes (up 44 percent), hot rolled sheets (up 37 percent), mechanical tubing (up 36 percent), oil country goods (up 26 percent, tin plate (up 21 percent) and reinforcing bar (up 14 percent).

In August, the largest volumes of finished steel imports from offshore were from South Korea (450,000 NT, down 21 percent vs. July final), China (226,000 NT, down 16 percent), Turkey (210,000 NT, up 59 percent), Japan (165,000 NT, down 18 percent) and Taiwan (130,000 NT, up 23 percent).

August steel shipments down

The American Iron and Steel Institute (AISI) reported that for the month of August 2014, U.S. steel mills shipped 8,480,954 net tons, a 0.1 percent decrease from the 8,492,744 net tons shipped in the previous month, July 2014, and a 1.7 percent increase from the 8,343,075 net tons shipped in August 2013. Shipments year-to-date in 2014

are 65,750,844 net tons, a 2.7 percent increase vs. 2013 shipments of 64,019,060 net tons for 8 months.

A comparison of August shipments to the previous month of July shows the following changes: hot rolled sheet, up 3.0 percent, hot dipped galvanized sheets and strip, up 1.0 percent and cold rolled sheet, down 3.0 percent.

I just got my boyfriend a 'get better soon' card. He isn't sick, I just think he can get better.



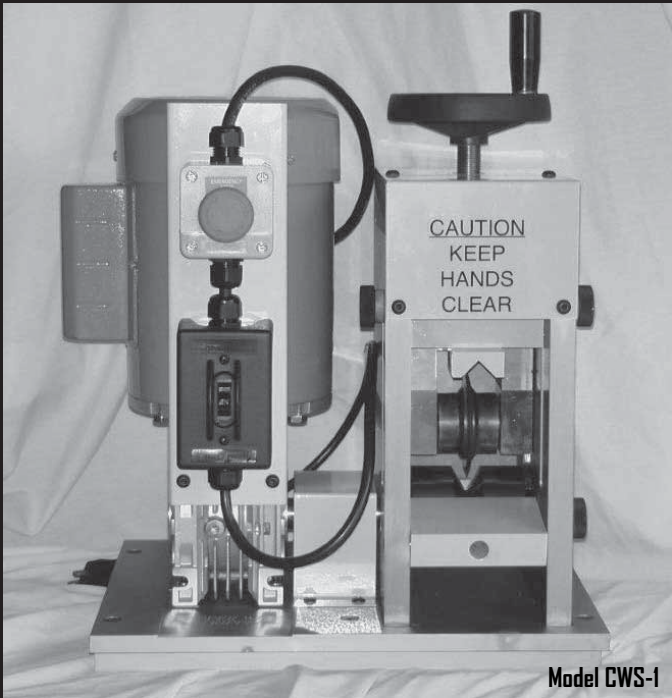
Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$250.00	\$245.00	\$282.00	\$345.00	\$375.00
#1 Bundles	per gross ton	250.00	245.00	260.00	325.00	345.00
Plate and Structural	per gross ton	245.00	250.00	285.00	340.00	370.00
#1 & 2 Mixed Steel	per gross ton	242.00	247.00	285.00	315.00	340.00
Shredder Bundles (tin)	per gross ton	210.00	220.00	210.00	250.00	275.00
Crushed Auto Bodies	per gross ton	210.00	220.00	210.00	250.00	275.00
Steel Turnings	per gross ton	158.00	155.00	155.00	180.00	235.00
#1 Copper	per pound	2.75	2.70	2.80	2.98	2.87
#2 Copper	per pound	2.61	2.45	2.72	2.82	2.73
Aluminum Cans	per pound	.70	.65	.75	.70	.75
Auto Radiators	per pound	1.85	1.75	1.80	1.75	1.96
Aluminum Core Radiators	per pound	.60	.61	.72	.70	.65
Heater Cores	per pound	1.30	1.20	1.35	1.50	1.68
Stainless Steel	per pound	.50	.51	.59	.50	.57

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

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

Copper Wire Stripper

- Double your value on scrap copper wire ▪ Made in Canada
- Strips 120 ft per minute ▪ Self-feeding ▪ Industrial machine



Model CWS-1

888-419-3555 ▪ www.copperwirestripper.com

AUTOMOTIVE

Pull-a-Part captures record number of mercury switches

Pull-A-Part, a family business serving the do-it-yourself, used auto parts market, has achieved a milestone in the national effort to prevent mercury contamination in the environment caused by mercury switches in old cars. At its 28 used auto parts superstores in 12 states, the company has captured more than 255,178 mercury switches from old cars before making the vehicles available to consumers to pull and purchase used auto parts.

Mercury switches can release a significant amount of mercury into the environment if they're not removed from old cars before the vehicles are crushed and shredded for recycling. Each switch, about

the size of an acorn, contains enough mercury to contaminate 132,000 gallons of water above U.S. EPA drinking water standards. The mercury switches collected by Pull-A-Part contain 561 pounds of mercury, preventing the pollution of more than 33.6 billion gallons of water, enough to fill a 1,034-acre lake 100 feet deep.

Many vehicles produced before 2003 included mercury switches – devices that control the convenience lighting in hoods and trunks and in some anti-lock braking systems. While the switches are not used in today's new cars, many vehicles with mercury switches still are on the road or headed into used auto parts businesses.

Salvaging Millions

by Ron Sturgeon
Autosalvageconsultant.com

Tools for success – an ongoing series

Be a promise keeper

The initial article of this series listed dozens of tools needed for success from my experience. In subsequent articles, I will be exploring them in more depth.

Always do exactly what you say you will. People will learn that they can count on you, and you want that reputation. Don't make excuses. Just do what needs to be done.

When my partners and I sold GreenLeaf the second time, they gave me a Lucite trophy inscribed with the word LOCKSMITH because I was so good at unlocking the potential of people and getting the job done.

I can be a hard boss. However, people who have worked for me will tell you that they never had to wonder where they stood with me. I was honest in setting expectations, honest with how I would measure success, and honest with people about how they were performing.

Those who could deliver, they excelled. Those who couldn't, didn't stay long.

The people who work for you want the truth, and they will respect you for telling it.

Of course, telling the truth may not mean telling all you know. When we bought GreenLeaf back from Ford, it was losing a million dollars per month. We had to decide which 300 people to let go. We knew who with some work, but we had good reasons not to tell until the time was right.

Remember that these situations are rare exceptions. You should strive to be direct and truthful with everyone in your business life. You never want to look back and wish you had just told the truth.

The truth can be painful, but, as Don Egilseer used to say, it's an elixir. It

can be healthy to get an issue out in the open where you and your employees can work on it. Did a customer write you a bad check, which caused your account to be overdrawn, and you then had a check returned? It's ok – call the person you gave the check to and explain what happened, how it's your responsibility, and tell them exactly how you will make it good. If you can't deliver on ANY expectation, get in front of it, take ownership, don't whine or make excuses, and explain how you will fix it.

Part of being reliable in your business life is about what you promise. Don't take on projects you can't do. Don't overpromise. Always meet or exceed the deadlines you have agreed to.

If you find yourself always busting your hump to meet a promise that seems impossible the minute after you've said it, you need to rethink how you work. Yes, it's true that the people you promised appreciate your meeting the deadline, but they may not even notice how much blood and tears it cost you.

Be smarter. Give yourself a realistic deadline and those same people will notice you delivered sooner than you promised. You will be happier and you will reach your career goals sooner.

You should use the same thinking when you delegate tasks. Never give people on your project the REAL deadline. Always give a deadline that's BEFORE your true deadline so that you can still stay on track when someone else screws up.

One of my favorite sayings is "No one cares how bad the storm was; all they care about is whether you brought the ship in."

When you are the captain, make sure the ship gets there before you promised.

Remember, only you can make BUSINESS GREAT!

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

GM Kokomo joins environmental stewardship program

General Motors' Kokomo, Indiana operation is now a member of the Indiana Environmental Stewardship Program. The voluntary, leadership-based organization honors companies for going above and beyond Indiana's environmental regulations.

GM Kokomo operations, which makes electronic control modules for engines and transmissions, semiconductors, and safety electronics and sensors, continuously drives to improve the efficiency of its facility and positively impact the surrounding community. The operations are landfill-free and achieved a water reduction of 4 million gallons annually.

Efforts to reduce the facility's environmental impact include heat recovery, a process using heat reclaimed from cooling tower water to preheat water destined for its water system. As a result, the company eliminated the need to heat city water for its operations while avoiding the use of approximately seven million kilowatt hours of energy. GM received a return on its investment within a year.

The state recognized GM Kokomo for other initiatives, such as meeting the

Energy Star® challenge for industry and achieving Environmental Management System ISO 14001 certification. The facility has reduced its energy intensity by more than 23 percent in just 3 years by replacing high-intensity discharge lighting with energy-reducing fluorescent fixtures and empowering site employees to identify energy waste.

Since 2000, GM Kokomo has completed 52 environmental improvement programs that led to reductions in energy and water consumption; waste water discharge; volatile organic compound emissions, and hazardous air pollutant emissions.

GM's 1,000 Kokomo employees also share their environmental knowledge with the next generation of leaders through the GM GREEN watershed education program, rolled out this year with employees at the facility. Employee volunteers mentor students on water quality through hands-on testing and analysis in Kokomo Creek.

Additionally, the facility is developing local habitats right in its own backyard. A pollinator garden has taken root at GM Kokomo and will provide a home for a number of species.

Mazda tops fuel economy report

According to the U.S. Environmental Protection Agency (EPA)'s most recent Light Duty Fuel Economy Trends report, Mazda Motor Corporation is the most fuel-efficient auto manufacturer in the U.S. for the second consecutive year. With the highest fleet-wide adjusted fuel economy performance of 28.1 miles per gallon (MPG), and the lowest adjusted CO2 emissions of 316, Mazda led the chart for model year 2013, as they did for the previous year.

Mazda was able to maintain the highest fuel efficiency of all automotive manufacturers for the second year in a

row through the use of the company's Skyactiv® Technology.

Skyactiv is a suite of component and engineering technologies that incorporate ultra-high compression ratio gasoline engines, super-efficient manual and automatic transmissions, lightweight chassis and body components, reduced rolling resistance and low-drag body styling.

Furthermore, Mazda has achieved this fuel economy rating by working to improve existing technologies, making outstanding fuel economy affordable.

Mercedes-Benz required to correct inaccurate fuel economy labels

The U.S. Environmental Protection Agency (EPA) is revising estimates for two 2013/2014 Mercedes C300 4-matic vehicles, the FFV and PZEV, to ensure consumers are given accurate fuel economy values.

During EPA fuel economy audit testing, the Mercedes C300 4-matic was found to have values that differed from those submitted to EPA at the time of

certification. With EPA oversight, Mercedes conducted new emissions and fuel economy testing, and EPA conducted its own testing at its National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. As a result of this subsequent testing, EPA is requiring Mercedes to relabel its 2013 and 2014 C300 4-matic models with lower fuel economy values.

Moving soon?

To ensure you continue receiving your copy of American Recycler, please notify us as soon as you have your new address!

Send changes to Circulation, American Recycler News,
900 W South Boundary St, Bldg 6, Perrysburg, OH 43551
or call us at 877-777-0043.



INTERNATIONAL

New waste-to-energy businesses in Italy created

Reservoir Capital Corp. has entered into a Letter of Intent (LOI) with Saxa Gres S.r.L. to develop recycling, manufacturing, waste-to-energy and renewable energy businesses in Italy. Under the terms of the LOI, Reservoir can acquire a 35 percent interest in Saxa Gres and a 65 percent interest in a new spinout company, Saxa Energy, by providing technical and financial support.

Saxa Gres has agreements to acquire and refinance the assets of Area Industrie Ceramiche S.r.L., a ceramic floor and roof tile factory located outside of Rome. The factory is in the process of being redeveloped into a recycling business that produces high quality floor tiles by blending traditional clay feedstock with ash from municipal waste incinerators. Saxa Gres is scheduled to resume tile production in early 2015 and has secured a long-term agreement with ACEA S.p.A, a government-owned utility

in Rome, whereby it will be paid to receive and recycle incinerator ash. In addition, Saxa Gres has received purchased commitments for the first three years of floor tile production.

Saxa Energy is a new company being formed to acquire the energy assets of Saxa Gres, specifically a 3.9-megawatt gas-fired power plant and related infrastructure. Reservoir has agreed to provide funding for feasibility studies assessing the acquisition of new equipment to generate biogas from municipal organic waste and the conversion of the existing power plant to run on this biogas. Once converted into a waste-to-energy operation, Saxa Energy would sell biogas, heat and electricity to Saxa Gres under long-term agreements while generating revenue by disposing of municipal organic waste. Excess electricity would be sold onto the Italian grid.

Europe recycled over 65 billion bottles

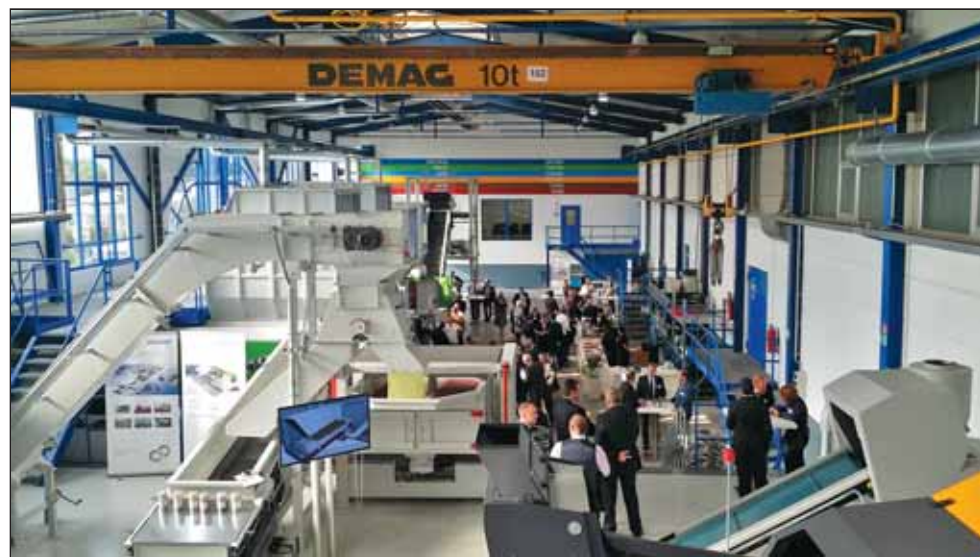
PET is by far the most recycled plastic material recycled in Europe, with the equivalent of around 65 billion bottles recycled in 2013.

PETCORE Europe chairman Roberto Bertaggia said, "From a sustainability perspective, our industry is thrilled that last year the equivalent of around 56 percent of PET containers in circulation were collected for reclamation and recycling. There is, however, still a huge disparity in

collection rates amongst the Member States, and all stakeholders need to work together to align the collection processes."

Casper van den Dungen, PET chairman at Plastics Recyclers Europe (PRE) and a board member of PETCORE Europe, said, "The overall collection of PET bottles in Europe at 1.64Mt represents a 7 percent increase on last year. We still have considerable spare recycling capacity to enable us to recycle more."

Vecoplan opens tech center in Germany



Vecoplan celebrated the grand opening of its new 17,000 sq.ft. technology center in Bad Marienberg, Germany. The facility is equipped with more than 25 machines representing a comprehensive range of mechanical technologies for the processing, recycling or repurposing of waste and biomass. Processors can conduct comprehensive tests on their specific materials across customized systems that incorporate all necessary technologies.

Machines operating in the technology center include size reduction, shredders, chippers and granulators;

conveying, belt, screw, drag-chain, and diverting; screening, waste, oscillating and vibratory; magnetic separation, over-belt, drum and neodymium (rare earth); nonferrous separation, eddy current; air separation; optical sorting; plastics washing line; Dust collection and a super sack filling station.

For over 45 years Vecoplan has designed, engineered and manufactured machinery for shredding, conveying, screening, sorting, and general processing of both raw and residual material for recovery and reuse.

He who laughs last didn't get it.

Compactors - Portable and Stationary, Hydraulic Cart Dumpers, Belt Filter Presses, Transfer Stations, HD Extruders, Xtractors, X³Cyclers, Densifiers, OFR Oil & Filter Recycler, Conveyers, Turn-Key Installation

BRIGHT TECHNOLOGIES
A Division of Sebright Products Inc.

sebrightproducts.com
30 Years of Innovation 1984 - 2014
800-253-0532 / 269-793-7183

Recycling Equipment

X³Cycler
Depackage, Dewater, Densify
PET, LDPE, HDPE, EPS, EPP
Aluminum, Tin, Paper, Aseptic
Sanitary wipes

Xtractor

Bales with NO moisture deductions!

Polystyrene DENSIFIER™

Oil & Filter Recycler

Visit us!
canadian waste & recycling expo
Booth #1762
RECYCLING EQUIPMENT CANADA

WHAT NEEDS SHREDDING?

SSI Shredding Systems, Inc.
www.ssiworld.com | sales@ssiworld.com | Tel: (503) 682-3633
Shredding everything including the kitchen sink at www.WatchItShred.com

BUSINESS BRIEFS

Liebherr Construction signs agreement with RECO

■ Liebherr Construction Equipment Co. disclosed that RECO Equipment, Inc., headquartered in Belmont, Ohio, acquired Republic Crane LLC with locations in Charlotte, North Carolina and Florence, Kentucky. In agreement with Liebherr, these locations will now operate under the full-line Liebherr contract selling and servicing the earthmoving and material handling product lines. RECO is an established Liebherr dealer representing the full product line in multiple locations in Ohio, Pennsylvania and Indiana since 1994.

Vecoplan names Matt Osborne territory manager

■ Matt Osborne has joined Vecoplan, LLC as a territory manager in their Mobile Division. Osborne will be responsible for overseeing sales of Vecoplan’s Mobile Shredding Systems to the document destruction industry. He will also work as a liaison between secure destruction providers and Vecoplan’s research, development and engineering team, in their ongoing Shred Truck innovations and improvements program. As innovations are implemented, Osborne will collaborate with Vecoplan’s marketing department to introduce these advances to the marketplace. Prior to joining Vecoplan, Osborne was city manager at DR Horton where he managed day-to-day operations, coordinating the activities of sales, construction, customer service, acquisitions and administration. He brings 11 years of experience to his new position.

Republic Services acquires Rainbow Disposal Co.

■ Republic Services, Inc. disclosed the acquisition of one of Southern California’s largest independent solid waste companies, Rainbow Disposal Co., Inc. The transaction further enhances Republic’s Southern California footprint, and reinforces the company’s growth strategy to expand its operations through targeted, accretive acquisitions. Republic has acquired Rainbow’s state-of-the-art business and facilities, which include hauling routes in Huntington Beach, Fountain Valley, Midway City, Westminster, Orange County, Newport Beach and Irvine as well as a recycling facility, a transfer station, a compressed natural gas (CNG) refueling station, and a vehicle fleet, powered by CNG. As part of the transaction, the primary principals at Rainbow, Jerry Moffatt and Jeff Snow, have joined Republic Services and will lead a newly created business unit of the company based at the Huntington Beach campus. Republic’s new business unit will continue to serve residential and commercial customers, providing waste collection, transfer, disposal, diversified material recovery/recycling and organic composting.

Husband: What would you do if I won the lottery?
Wife: I’d take half and leave.
Husband: Well here’s \$6! You can start packing now.

MHG appoints director of materials technology

■ MHG, the holding company for biopolymer entities Meredian Inc. and DaniMer Scientific, disclosed that Michael N. Mang has joined the company and will be taking on the role of director of materials technology. Mang joins the team with more than 28 years of experience in the polymer industry, including developing commercial scale processes for polymers. He has a successful track record in both start-up industrial biotechnology and global chemical company settings. In addition to his experience, Mang has an extensive list of publications he co-authored. Prior to joining MHG, Mang served as the director of product technology and application development at Myriant Corporation, an industrial biotechnology company. During his tenure, he recognized possible new market opportunities and implemented a go-to market strategy for their new bio-based product. This subsequently led to an increase in their potential growth from \$100 million to nearly \$1 billion. In addition to his time at Myriant, Mang was the director of product development for specialty products at Natureworks, LLC, a company that commercialized plastics made from renewable resources. For 12 years, he also organized and created new technology development plans to promote capital investments in polymer products for The Dow Chemical Company.

Newalta names Barkhouse as president and CEO

■ Newalta Corporation disclosed that the board of directors has appointed John Barkhouse as president and chief executive officer and to the board of directors, to succeed Al Cadotte, current president and chief executive officer, effective November 10, 2014. Cadotte will remain on Newalta’s board until the annual general meeting in 2015. In addition, Cadotte will work with Barkhouse to ensure a seamless leadership transition. Barkhouse is a seasoned executive with extensive experience building and growing companies in North America and internationally. He brings deep engineering, planning and operational expertise to the role at Newalta. Most recently, he held the position of president of Bredero Shaw, A ShawCor Company, based in Houston, Texas. Bredero Shaw is the world’s leading producer of pipeline coating solutions for the oil, gas and water industries. Prior to that he was the senior vice president, Americas & Global Operations of Bredero Shaw. Before joining ShawCor, he was vice president, operations for Irving Shipbuilding and held progressively senior roles with Caterpillar, and was most recently managing director for Caterpillar India Private Ltd.

If someone asks you to spell “part A” backwards, don’t do it.
It’s a trap!

Genesis Attachments promotes Justin Palvere

■ Genesis Attachments has promoted Justin Palvere to national account manager - demolition. In this newly formed role, Palvere, previously the Genesis Southeast regional manager, will develop, manage and maintain programs and services designed to meet the needs of demolition contractors. Palvere will also continue in his regional manager role until a successor is named.

Roll Rite tarp manufacturing moved to larger facility

■ Roll Rite, LLC relocated its headquarters and manufacturing operations to a 68,000 sq.ft. facility in Gladwin, Michigan. Roll Rite chief executive officer Brad Templeman, announced to distributors and OEMs, “Our decision to relocate to a larger facility aligns with Roll-Rite’s strategic direction to expand our geographic reach and application scope in designing and manufacturing state of the art automated tarp systems for the global heavy duty trucking industry serving the construction, governmental, agriculture, waste and recycling markets.”

ADVERTISER INDEX	
PAGE	ADVERTISER
A3	Bud Roberts Company
A10	Call Shaughnessy, Inc.
B5	Caster Ranch
B3	ClearSpan Fabric Structures
A9	Connecticut Metal Industries
A15	Copper Wire Stripper
A6	Crow Environmental Ltd.
A12,B8	DADE Capital Corp.
A8	Franklin Miller
A11	Government Liquidation
A7	Granutech Saturn Systems, Inc.
A8	International Baler
A9	Lynch Towing
B5	Maurer Manufacturing
A14	Moley Magnetics, Inc.
A4, A24	OverBuilt, Inc.
A19	Panhandle Converter & Scrap Co.
A10	Pemberton
A2	Recycling Equipment Sales, Inc.
A19	Recycling Services International
A23	RM Johnson Co., Inc.
A7	SAS Forks
A17	Sebright Products, Inc.
A5	Sierra International
A17	SSI Shredding Systems, Inc.
A18	US Composting Council
B2	VZN Group, LLC

JOIN US AT THE

- World’s largest organics recycling tradeshow
- The industry’s only standalone Equipment Demonstration Day
- Compost facility operators, government program managers, equipment and service suppliers, consultants and researchers

Keynote Speakers Include:



Pashon Murray
Owner,
Detroit Dirt



John Wick
Co-founder,
Marin Carbon Project

Thanks to Our Sponsors!







COMPOST 2015
ORGANICS ON THE RISE
US Composting Council Conference & Tradeshow
Jan. 20-23, 2015 | Austin, TX

WHAT: Annual Conference & Tradeshow Event of the Organics Recycling Industry!
WHERE: Renaissance Hotel, Austin TX
WHEN: January 20-23, 2015 (3 days of tradeshow & sessions plus a field day of composting & mulching equipment demonstrations)

TO REGISTER: www.compostingcouncil.org/register2015

BUSINESS BRIEFS

Partnership formed by MRF and compactor company

■ Stadler America LLC and Becker Complete Compactor Inc., both South Carolina based companies, formed a partnership to provide improved service in the Southeastern U.S. and beyond.

Stadler is a manufacturer of material recycling facilities (MRF), designing, manufacturing and installing recycling systems for all kinds of waste, including: single stream, municipal solid waste (MSW), co-mingled, commercial industrial waste (C&I), plastic bottles and lightweight packaging, as well as paper and OCC.

Columbia-based Becker Complete Compactor sells and services Marathon balers and compactors for the recycling industry. Becker has built strong relationships throughout the waste and recycling industry in South Carolina for over 20 years.

Bunting Magnetics names new sales manager

■ Bunting Magnetics Co., producer of precision magnetic products for the food, recycling, printing, automobile, plastics, and electronics industries, has named Mauricio Mendizabal as international sales manager for Latin America. Mendizabal joined Bunting in early 2014 as food industry territory manager, serving Bunting customers in the powder and bulk, feed and grain, and general food industries. Before joining Bunting, he had many years of domestic and Latin American industrial sales experience.

RIOS appoints new members to its board

■ The Recycling Industry Operating Standard (RIOS™) recently named Jeremy Miller of Wm. Miller Scrap Iron & Metal Co. in Winona, Minnesota and Scott Venhaus of Arrow Electronics in Englewood, Colorado to its board of directors. Each will serve a three year term. RIOS is the recycling industry's management system standard for quality, environment, and health and safety (QEH&S). Specifically designed for the recycling industry, RIOS, integrates the key operational elements found in other standards, such as ISO 9001 (Q), ISO 14001 (E), and OHSAS 18001 (H&S), bringing them together into one streamlined management system.

Jeremy Miller is a fourth-generation recycler, serving as the chief financial officer of the family owned and operated Wm. Miller Scrap Iron & Metal Co. The company has 20 employees who are involved in a recycling operation that includes shears, balers, cranes, excavators, trucks, loaders as well as various types of other equipment. They also operate a licensed mixed solid waste and construction and demolition transfer station and provide roll-off dumpster services.

Scott Venhaus is director of global quality and compliance at Arrow, where he manages quality, safety, environmental compliance and operational excellence for Arrow's global reverse logistics services business. Arrow is a Fortune 150 company serving more than 100,000 customers in 58 countries.

Tomra Systems acquires Greenbean Recycle Inc.

■ Tomra Systems, ASA has entered into an agreement to acquire Greenbean Recycle Inc., a company specializing in technology for RVMs that facilitates rewards and incentives for customers and brings marketing value to retailers. The acquisition is an all-cash transaction and terms of the agreement were not disclosed.

The rewards technology will be integrated into TOMRA's ReAct technology platform. ReAct is a consumer engagement system designed to enhance the recycling experience, providing rewards and incentives for the consumers using RVMs to recycle their bottles and cans. Launched in Europe earlier this year, ReAct personalizes the process of recycling, and uses social media to highlight and reward top recyclers. Today, millions of consumers already use RVMs in the U.S. and Europe across dozens of retailers to recycle, earn their deposit value and feel good about recycling.

TOMRA plans to use new and enhanced personalization technology to provide more value to its retail customers, grow organically in non-retail locations and continue to support the currently installed base in public spaces.

The Greenbean technology facilitates a retailer's interaction with customers: Based on a consumer's recycling habits, the retailer can provide the customer with loyalty points or coupons, and ensure the funds will be spent in the store. When recycling through an RVM, customers have the option of adding points to their store loyalty cards or gift cards.

KPI-JCI and Astec Mobile Screens honors dealers

■ KPI-JCI and Astec Mobile Screens recognized 13 dealers for outstanding performance during its National Dealer Conference held in Denver, Colorado.

The recipients of the awards are selected from the entire KPI-JCI and Astec Mobile Screens dealer organization. The premier award this year was the Top Sales and Marketing Award, an honor that is only given when a dealer demonstrates extraordinary excellence. This year, Goodfellow Corporation of Boulder City, Nevada, was recognized for its dedication to the KPI-JCI and Astec Mobile Screens product line.

GGH Wyoming to open new waste facility

■ GGH Wyoming, LLC will open a waste management facility in Bill, Wyoming for the oil and gas exploration and production industry.

The facility, called Grasslands Environmental, is a turnkey waste management facility that is designed to serve the disposal and water needs of Wyoming's oil and gas exploration and production industry at a single location.

The facility will include a commercial oilfield wastewater disposal facility, an industrial landfill, a non-potable water supply well and two Class I injection wells.

My mother-in-law fell down a wishing well. I was amazed! I never knew they actually worked.



HELPING YOUR YARD GROW

See why everyone is talking about Panhandle Converter Recycling. Innovative technology, business management solutions and #1 in customer service. Our expert team will arm you with the tools you need to help you grow your yard and your bottom line. Locations nationwide; call today.

855.752.0393 • panhandleconverters.com

Powered by **in**

Panhandle
converter recycling



INCREASE PROFITS with the most efficient sweat furnace!

With a US Furnace's MAX-4000 Hi Efficiency Sweat Furnace, get the lowest fuel cost per lb to process than any other furnace manufacturer — **GUARANTEED!** The lowest melt loss rate than any other manufacturer — **GUARANTEED!** On-site installation, training & service.

FULL EPA compliance GUARANTEED.

RECYCLING SERVICES INTERNATIONAL

518-424-1168

www.RecyclingFurnaces.com

- Permit assistance available.
- Built for years of continued service.
- Large hearth opening for automotive scrap.
- New technology burner and control systems.

NEW PRODUCT SHOWCASE



ANDAX DEBUTS NEW SPILL CONTAINMENT KIT

The Trap Pac Pro™, a new spill containment kit, holds two complete spill systems in one color-coded, heavy-duty case. One side contains an Oil-Based Spill Pac™ with enough sorbents for a 10-gallon spill. The other side holds a reusable, 100-gallon Tank Trap™ containment pool for containing oil, diesel fuel, hydraulic fluid and more. Matching color-coded equipment labels can be used to identify possible leak sources before they happen so employees know exactly what spill response product to use. The Trap Pac Pro also comes in a Chemical/Hazmat version.

Andax Industries, LLC
613 W. Palmer Street
Saint Marys, KS 66536
800-999-1359
www.andax.com



CAT E2 SERIES EXCAVATORS GET NEW HYDRAULIC SYSTEM

The five compact radius Cat® E2 Series Mini Hydraulic Excavators will use the new High Definition Hydraulic system. The E2 models are designed to carry on the solid performance of their E Series predecessor, while adding greater value for the customer.

The new High Definition Hydraulic System in the E2 machines provides a load sensing and flow sharing capability leading to operational precision, efficient performance and greater controllability. The simple valve architecture reduces heat, which leads to a reduction in hydraulic instability and improved overall efficiency.

Caterpillar
501 SW Jefferson Street
Peoria, IL 61614
888-339-4658
www.caterpillar.com



CLEARSPAN ADDS OPTIONS TO HD BUILDING LINE

ClearSpan Fabric Structures has added three different length options to its HD Building solutions. The HD Buildings are available in both gable and round-style designs and can be mounted as a freestanding structure or affixed to other foundations, such as ponywalls or containers. HD Buildings are made from triple-galvanized structural steel tubing for the frame and a 12.5 oz., high-density polyethylene rip-stop fabric cover.

The HD buildings are now available in 160', 180' and 200' lengths, and can cost as little as \$7.49 per sq.ft.

ClearSpan Fabric Structures
1395 John Fitch Boulevard
South Windsor, CT 06074
866-643-1010
www.clearspan.com



INDECO LAUNCHES NEW ISS 35/60 STEEL SHEAR

Indeco North America has introduced its ISS 35/60 steel shear product. The new Indeco ISS 35/60 steel shears feature an exclusive dual-profile piercing tip, four reversible, interchangeable main cutting blades, an extremely wide jaw opening and continuous 360° rotation. The shear also features a special HARDOX® main body frame, an integrated regeneration valve which accelerates no-load movement of the jaw; a pivot group which prevents the jaws from buckling; and a large, powerful hydraulic cylinder with long-lasting seals that can withstand over 10,000 psi of pressure.

Indeco North America
135 Research Drive
Milford, CT 06460
800-542-6637
www.indeco-breakers.com



ORBIS ENHANCES NPL 390 KITCHEN COLLECTOR

Orbis Corporation has enhanced its Kitchen Collector for more convenient, user-friendly kitchen food scrap collection.

The NPL 390 Kitchen Collector2 minimizes potential messes during scrap collection and emptying. The bin's wide opening accommodates standard plate sizes, and it also includes a deeper finger grip area on the back of the base so the bin is less likely to slip out of a user's grasp during one-handed emptying. It can be taken apart for easy cleaning, and is entirely dishwasher safe.

Orbis Corporation
1055 Corporate Center Drive
Oconomowoc, WI 53066
800-890-7292
www.orbiscorporation.com



Classified ADVERTISEMENTS

877-777-0043

—Always Available—

PLACE YOUR TEXT AD ONLINE

www.AmericanRecycler.com

Rates

Text Classifieds

\$65 for up to 50 words.
Add \$1 each additional word.

Display Classifieds

\$70 per column inch depth,
2.5" width.

WE ACCEPT CHECKS, MONEY ORDERS, MASTERCARD, VISA and DISCOVER.
ALL CLASSIFIED ADVERTISEMENTS MUST BE PAID IN ADVANCE.

Auto Recycling

2006 BIG MAC PORTABLE CRUSHER
For sale. 2,695 hours, John Deere engine, good shape, road ready. \$89,995 OBO. E-mail lloyd@picknpullsa.com or call 210-389-7321.

1983 E-Z CAR CRUSHER MODEL B.
Serial #166. 460 gas engine. Using every day. \$37,500. Please call for more information 989-871-4000 or 989-871-9083. E-mail gjbarnum83@yahoo.com.

VEHICLE RECYCLING EQUIPMENT:
High volume, Midi & low volume vehicle drainage, fuel extraction, CAT cutter & danner, air conditioning tool, tire removal, lifts, tanks, airbag deployment unit, copper wire granulation, car wire granulators, engine breakers. Finance, service and technical information also available: Crow Environmental. Call Mason 540-255-4909.

MOTOR BLOCKS

Paying TOP \$ for Unclean Blocks!

METALICO ANNACO

800-394-1300

Metalico Youngstown

Scrap solutions for business and industry.

Mobile Car Crushing Service

Non-Ferrous Metal Specialists

Serving Ohio & Western Pennsylvania

ISO
9001:2008

Call Toll-Free 888-743-9001

www.metalico.com

Balers

OBC Baling Equipment
No Worries.

**BALERS • SHEARS • SHREDDERS
EPS and PET EQUIPMENT**

Our exclusive No Worries™ Guarantee ensures that if you purchase new or reconditioned recycling equipment from OBC and are not completely satisfied, we'll make it right or take it back. No worries. Period.



216.398.8800

www.OBCBaling.com

**BUILT TO BE THE FINEST
TWO-RAM
BALERS**



SIERRA
800.343.8503 | sierraintl.com

ADVERTISING IN AMERICAN RECYCLER is one of the smartest things you can do for your business! It's also one of the easiest ways to increase your sales income. Call 877-777-0043 and tell us what you would like to share with our tens of thousands of readers! All ads are also shown on AmericanRecycler.com FREE!

DECEMBER

FOCUS:
**Metals
Recycling**

**EQUIPMENT
SPOTLIGHT:**
**Metal
Shredders**

Close Date: 11/17

JANUARY

FOCUS:
Automotive

**EQUIPMENT
SPOTLIGHT:**
**Auto Loggers/
Balers**

Close Date: 12/16

NEXT DEADLINE: Nov 17
Call Today 877-777-0043

Balers



NEW AND USED EQUIPMENT
REPAIRS RELINES RELOCATIONS
FULLY STOCKED PARTS DEPARTMENT



Nexgen 2R-250N-84-50
With Mayfran 60" conveyor
Includes Combo Door
\$179,000

CONTACT US FOR YOUR
BALER RELINE AND REPAIR
QUOTES TODAY

Ely Enterprises, Inc.
Lorain, OH 44052
216-252-8090
sales@elyent.com
www.elyent.com

Businesses

PLANNING FOR RETIREMENT, ferrous and nonferrous with auto salvage, 20+ acres, warehouse, heated floor, 24' ceiling, 2 loading docks, 2008 FUCHS material handler, grapple and magnet. Also, LaBounty Shear 220, Komatsu excavator, lots of support equipment. Roll-off and tilt bed service with or without industrial accounts. Located 100 miles in all directions of major shredders, 75 miles from New Castle, Pennsylvania and 7 miles from Dubois Airport close to I-80. Turn-key operation. Fax offers to 814-772-9735.

BUFFALO, NEW YORK RECYCLING CENTER with tire and auto shop in operation over 40 years. Sits on approximately 8 acres zoned M-1, 3 buildings over 15,000 sq.ft. Fully equipped (call for list). Turn key operation. Details: Century 21 Balesteri 716-837-7000 or e-mail c21bal@aol.com.

WIFE MAKING ME RETIRE. 42 acres, 3-county area on main highway. 7,500 sq.ft. warehouse with tagged inventory. Approximately 600 vehicles on yard. Heated 3-bay shop with equipment. Three offices with new computers. Will lease or sell (partial financing available). Call Larry at 252-236-3678 or 252-442-1168.

Businesses

WHAT ARE YOU WORTH?

We do Business Valuations and Financial Proforma Forecasting for all solid waste business or permit activities. If you are thinking about a transaction, financing, or business succession...
Call or email:

412.562.0891 tel
412.562.0892 fax
info@sternerconsulting.com



STERNERCONSULTING
MERGERS & ACQUISITIONS
MANAGEMENT STRATEGIES
VALUATION & FUNDING PACKAGES

sternerconsulting.com

Material Handlers

NEW MAGNETS! No gen-set required!

Up to 40" that run off of machine's batteries.



800-472-0453
EQUIPMENT INTERNATIONAL

KUHN EQUIPMENT



2006 Cat 330DL equipped w/factory rebuilt LaBounty MSD2500R Saber Series shear w/360° rotation and warranty. **Call For Price!**



2009 Cat M318D MH - Hydraulic cab, A/C, 36 ft. reach MH boom & stick, gen set, cat grapple, and solid tires. One owner and CAT maintained since new. **Call For Price!**

800-225-0623
after hours: 843-324-8487
sales@kuhnequipment.com

GEN-SETS MAGNETS GRAPPLES

800-472-0453
EQUIPMENT INTERNATIONAL

Material Handlers

KUHN EQUIPMENT



2006 Cat M322C MH - Hydraulic cab, A/C, 41 ft. reach MH boom & stick, gen set, Cat grapple, and solid tires. **Call For Price!**



Mobile Scrap Shears

Genesis GXP500R w/360 degree rotation, 2 units. Choice of fully RECONDITIONED or good used. **Call For Price!**

Genesis GXP400R w/360 degree rotation. Fully RECONDITIONED and work ready. **Call For Price!**

Genesis GXP660R MAXX w/360° rotation. In shop now for reconditioning. **Call For Price!**

NEW Genesis GDP650 "Demo Pro", 7500 lb. concrete steel processor with 360° rotation and a one year Genesis warranty. **Call For Price!**



2006 Volvo EC460BLC equipped w/LOW TIME, factory rebuilt Genesis GXP660R MAXX Mobile Shear w/360° rotation. **Call For Price!**



2006 Hitachi ZX270LC - 3 equipped with LaBounty MSD2000R mobile shear with 360° rotation and less than 500 hours since complete factory rebuild. Through shop, checked, serviced, and ready to go!!! **Call For Price!**



2008 Cat M322D MH - Hydraulic cab, A/C, 41 ft. reach MH boom & stick, NEW gen set, outriggers, and solid tires. Very clean machine. **Call For Price!**

800-225-0623
after hours: 843-324-8487
sales@kuhnequipment.com

HUGE OPPORTUNITY to advertise your business! Call 877-777-0043 to find out how to get your ad displayed on www.AmericanRecycler.com today!

Material Handlers

EQUIPMENT INTERNATIONAL

"Recycling Equipment Specialists"

800-472-0453



WE HAVE IN STOCK...

(29) MATERIAL HANDLERS
with Cab Risers, Magnet Gen-Sets
& Rotating Grapples

- MOBILE SHEARS
- PORTABLE BALERS
- NEW GRAPPLES
- NEW GEN-SETS & MAGNETS

WE BUY & SELL
All Types of
USED SCRAP PROCESSING
EQUIPMENT

WE SPECIALIZE IN
FUCHS, LIEBHERR, SENNEBOGEN & CAT
MATERIAL HANDLERS

GENESIS & LaBOUNTY MOBILE SHEARS

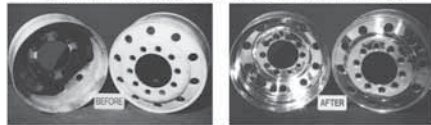
We Offer Equipment Locator Service &
We Custom-Build Machines
with Magnets, Shears, Etc.

CALL FOR A QUOTE TODAY!!!

Miscellaneous

Semi Automatic Wheel Polishing System

Super-singles, truck, light truck, passenger & motorcycle aluminum or steel wheels with tires mounted.



Simple to operate & maintain. Very profitable. Three month ROI.

www.WheelPolishSpecialist.com
1-800-333-0268 or 573-270-0443

EQUIPMENT FOR SALE

- (2) Dual rotor shredders:
35 x 70 & 36 x 53
- (2) Cumberland "Hog"
granulators: 150 & 200hp
- Cumberland 50B 5kn,
open rotor design
- 72" w Hydraulic guillotine
with 60" stroke

Perry Videx LLC • 609-288-4046
fgarcia@perryvidex.com • www.perryvidex.com

To Place Your Ad**Call**

877-777-0043

Fax

419-931-0740

Visit

AmericanRecycler.com



Classified

ADVERTISEMENTS

WE ACCEPT CHECKS, MONEY ORDERS, MASTERCARD, VISA and DISCOVER.

ALL CLASSIFIED ADVERTISEMENTS MUST BE PAID IN ADVANCE.

Rates**Text Classifieds**

\$65 for up to 50 words.
Add \$1 each additional word.

Display Classifieds

\$70 per column inch depth,
2.5" width.

Miscellaneous

FREE HEAT

& DISPOSAL of USED OIL



with **KAGI**
MULTI-FUEL
WASTE
OIL
BURNERS



MADE IN THE USA

KAGI Heating Supplies

888-866-5244

www.KAGIBURNER.com

The **HEATWAVE**
by Siebring

WE MANUFACTURE SIZE REDUCTION PROCESSORS: crushers, shredders, grinders, screens, macerators and deagglomerators. Equipment is suitable for wet/dry industrial applications, wastewater grinding and screening or solid waste reduction and perfect for applications intended to improve product consistency and quality in shredding bulk solids and documents. Franklin Miller, 800-932-0599.

24" Gas Tank Strap Cutter



\$129

27" Slide Hammer Handle Gas Tank Strap Cutter



\$165

3 lb. RAM

28" Steel Cable Cutter



opens 11/8" \$99

33" Copper & Aluminum Cable Cutter



opens 21/8" \$165

BEST IN THE WORLD!

800-253-5646

**Miscellaneous**

3/4-yard FUCHS Hyd. Grapple
60-60 American Crusher System
8' x 25' BHS Disc Screen **CALL NOW!**
100-ton CECAS Briketter
RB6000 Sierra Baler/Logger/Shear
36" x 6' Cross-belt Magnet
SHRED TECH SHREDDERS ST50, ST100H, ST500 **GOOD DEALS!**
30" NEW Eddy Current
Sierra 500-Ton Baler/Logger/Shear

ALANROSSMACHINERY
847-480-8900 www.AlanRoss.biz

SCRAP HAULING SERVICES LONG DISTANCE

Scrap hauling in aluminum & steel end dump trailers
- Service Area -
New England to South Carolina & New England to Chicago
EDGEWATERBULK.COM
610-837-3867

SARGENTS

EQUIPMENT & REPAIR SERVICE

Recycling Equipment-Your Complete Source!

Fuchs Material Handlers
Harris Balers
Genesis Shears
LBX Material Handlers
Used Equipment

We Service What We Sell

TO SEE OUR INVENTORY PLEASE VISIT
sargentsequipment.com
708-758-2062

WANTED TO BUY USED RECYCLING EQUIPMENT

Hovde Recycling Equipment
800-617-5219 or 214-662-2648
steven@scrapequip.com / scrapequip.com

ClearSpan
fabric structures

Sustainable Design-Build Solutions

MADE IN USA

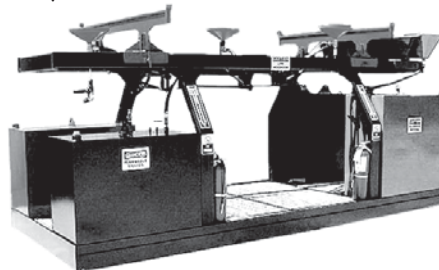
Call one of our ClearSpan specialists today at 1.866.643.1010 or visit us at www.ClearSpan.com/ADAR.

Miscellaneous

ORANGE PEEL GRAPPLE, BRAND NEW! 3/4-yard 4-tine orange peel grapple with 15-ton 360° rotator. Show floor model for sale, SPECIAL PRICE: \$18,800. Please call Moley Magnetics at 716-434-4023 or visit www.MoleyMagneticsInc.com.

IRON AX ENVIRO-RACK

Complete fluid removal in less than 5 minutes!



The Enviro-Rack is the most superior auto fluid removal and dismantling system on the market today.

877-247-6629 • IronAx.com

YOUR RESOURCE FOR SHREDDER PARTS & SERVICE

- Supporting Most Makes and Models of Industrial Shredders
- Custom Parts and Machining
- Complete Field Service and Technical Support
- Engineering Services



Phone: (503) 682-6487
www.shredderserviceco.com

Scales**LEGAL FOR TRADE**

NTEP SCALES

- ▶ Floor scales: 4 x 4 5,000 lbs. \$685. 5 x 5 5,000 lbs. \$730. Ship free!
- ▶ Crane scales 250 lbs. and up start at \$596.25.
- ▶ Bench scales 100 lbs. and up start at \$265.
- ▶ Truck scales start at \$6,124.50.

All scales pre-calibrated. Other sizes/capacities.

AWS American Weigh Scales
770-542-0230 | mail@awscales.com
www.AmericanWeigh.com

Shredders

USED 60" x 60" MAGNATECH top feed shredder for sale. New in 2008. 1,500 hp AC motor. Two eddy currents available as well. 60" Eriez Extreme and a 40" Dings. Call Grant at 218-831-2650 or e-mail grant@crowwingrecycling.com.

TRYCO

SELLING SHREDDERS and PARTS since 1984!
tryco.com

217-864-4541**Software**

SALVAGE YARD SOFTWARE. Auto recyclers yard management system for Windows™ by Rossknecht Software. Obtain extra revenue from scrap vehicles. Includes vehicle parts breakdown, invoicing, bar code tags, digital pictures, reports, towing, sales history, bookkeeping. New: Scrap purchase invoice and prints checks; send your inventory to your website. \$750 complete, no monthly fees. Visit www.rossknecht.com, e-mail arsals@rossknecht.com. Free demo CD 303-884-5315.

Wanted

WE BUY GAS drained from salvaged vehicles! Call today: 855-218-3013, info@lambfuels.com, www.lambfuels.com.

Hi-efficiency, new technology. INCREASE PROFITS! SWEAT FURNACES



PARTS • REPAIR • CUSTOM BUILDS

518-424-1168

www.RecyclingFurnaces.com

NOW PLACE YOUR TEXT CLASSIFIED AD ONLINE!

—Always Available—

24 HOURS PER DAY/7 DAYS PER WEEK

www.AmericanRecycler.com

TOUGHER • STRONGER • BUILT TO LAST

**Model
5**

E-Z LOG BALER

Here it is! The perfect baler for ANY salvage yard, scrap yard or parts yard in the industry. The all new Model 5 E-Z Log Baler offers more versatility to process cars, or scrap all with one machine. Yet it has a price tag that even a start-up company can budget for!

With zero set up time, pull into any yard and start turning those autos or scrap into operating revenue!



- Cycles in under 3 minutes!
- Produces up to 100 tons per day.
 - Fully portable.
- Many options now standard!



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

EZCrusher.com | davev@ezcrusher.com

R.M. Johnson Co. Annandale, Minnesota

HIGH-SPEED BALER/LOGGER

- 20' Charge Box
- Heavy-Duty Knuckle Boom
- Superior Lift and Reach

More Options,
More Convenience...
OverBuilt.



View our **TRADE-IN INVENTORY**
in our ad on page 4!

HIGH-SPEED CAR CRUSHER

THE ONLY TRUE HIGH-SPEED SYSTEM AVAILABLE



- Largest Opening on the Market
- Advanced Oil Recovery System with Sludge Traps and Large Clean-outs
- State-of-the-Art Automation System
- 400-gallon Fuel Cell and Optional Lockable Auxiliary Fuel Pump
- Optional High-speed Oil Bypass System
- 22' & 24' Crusher Chambers Also Available
- Twin Lid Safety Lock System Engaged from the Ground
- Ground Accessible Grease Stations on the Lid for Safe Maintenance.



Huron, South Dakota

800-548-6469 www.OverBuilt.com
605-352-6469 sales@overbuilt.com



CAR CRUSHER BUYING GUIDE

clip & save! ✂

STANDARD CRUSHERS

	OverBuilt	COMPETITION A	COMPETITION B
What is the size of the opening (length & height)?	20'3" L x 10' H	___' ___" L x ___' ___" H	___' ___" L x ___' ___" H
What is the setup time?	NONE	_____	_____
Do you use weather-tight electrical connections for automation controls and trailer lights?	YES	Yes / No	Yes / No
Does the crusher have fenders on the front of the machine?	YES	Yes / No	Yes / No
Are the guide frames tied at the top?	YES	Yes / No	Yes / No
How big is your fuel tank?	400 GALLONS	_____ Gallons	_____ Gallons
Do you have wear guides on the main cylinder pistons and glands?	YES	Yes / No	Yes / No

REMOTE CONTROL

How quickly can you get me a replacement automation system?	NEXT DAY	_____	_____
How long does it take to replace the receiver on the machine?	10 Minutes	_____ Minutes	_____ Minutes
Can I start and stop the engine with the remote?	YES	Yes / No	Yes / No
Does the remote have individual up and down cylinder control buttons?	YES	Yes / No	Yes / No
Do you use rocker switches to limit the up stroke of the cylinders?	YES	Yes / No	Yes / No

OPTIONS

High Speed	YES	Yes / No	Yes / No
Maximum oil flow from your cylinders?	250 gpm	_____ gpm	_____ gpm
What is the maximum port size of the cylinders?	2.5"	_____ "	_____ "
Can I get an auxiliary fuel pump to fill my loader?	YES	Yes / No	Yes / No

SAFETY & HAZARDS

Do the safety locks engage from the ground, without climbing on the machine or into the chamber?	YES	Yes / No	Yes / No
If one side of the lid is raised and the other side is down, will it damage the crusher?	NO	Yes / No	Yes / No
Does your waste oil recovery tank have sludge traps and large clean-out access panels?	YES	Yes / No	Yes / No
Do you have lockable cabinets for the:			
Engine controls	YES	Yes / No	Yes / No
Remote control	YES	Yes / No	Yes / No
Valves	YES	Yes / No	Yes / No
Auxiliary fuel port	YES	Yes / No	Yes / No

This helpful guide
was provided to you by:



800-548-6469
www.OverBuilt.com

Re-evaluating single stream: Is there a better way?

by MARK HENRICKS

mhenricks@americanrecycler.com

Twenty years ago, almost every American community with a recycling program required residents to sort recyclable materials, separating paper, plastic, glass and other materials before placing them in one or more bins for curbside collection. The advent of single-stream recycling changed all that.

In an effort to boost recycling rates, a few California cities began having residents put all recyclable materials including paper, plastic, steel, aluminum and glass, in a single curbside bin. Materials were in some cases sorted by workers curbside before being placed into appropriate bins on a collecting truck. In others, everything was dumped into a single container on the truck and taken to a recycling facility for sorting and further processing.

As a tool to encourage recycling, the initiative worked. Recycling rates soared as residents embraced the convenience of putting all recyclable materials in a single bin without presorting. Today, approximately two out of three communities with recycling programs use single-stream. Dual-stream and

other approaches have likewise been steadily falling out of favor as communities sought to increase recycling rates to reach ever-higher goals.

Single stream's ascent has not come without criticism, however. Organizations such as the Container Recycling Institute, a non-profit research and advocacy group based in Culver City, California, have said that single-stream was created to address 1990s concerns about cost-effectively keeping materials out of landfills, but fails to fulfill 21st Century goals such as cutting energy use and reducing greenhouse gases.

Nearly everyone agrees that single stream has a generally negative effect on the quality of recyclable outputs. Bales of paper, for instance, have higher levels of metal, glass and other contaminants. This reduces the value of the bales, which also cost more to process. Some recyclable materials that come from single-stream systems are not cost-effective to recycle and may wind up going into the landfill anyway.

Single stream is especially hard on glass. The physical reality of the process of collecting and sorting single-stream recyclables means much of the glass that is



Most early municipal recycling programs required residents to separate their recyclables at home prior to pick up. Later, single stream systems were implemented to boost participation and the volume of material recycled. While largely successful, single stream systems have some considerable drawbacks that have some organizations advocating for a switch back to home-sort systems.

PHOTO BY JORDAN TAN | DREAMSTIME

deposited by consumers in single-stream receptacles is broken, sometimes into small pieces, during transport, sorting and processing. That makes recycling glass from single-stream collection systems difficult, inefficient and costly, especially considering the relatively low value of mixed-glass recyclables.

Critics of single stream say it makes more sense, from a recycling and environmental standpoint, to encourage consumers to pre-sort materials before collection. This results in lower costs for sorting and other processing. Some say consumers should be charged by weight or volume for the garbage they throw away.

That would encourage them to recycle more – after sorting – and that would keep recycling rates higher than otherwise.

Jeremy O'Brien, director of applied research for the Solid Waste Association of North America in Silver Spring, Maryland, said part of the reason for the difficulty in imple-

See SINGLE STREAM, Page 7

Six more charged in DEP dumping crackdown

The Department of Environmental Protection's (DEP) initiative to crack down on illegal dumping in state parks and lands has yielded six more enforcement actions, all related to illegal dumping in New Jersey.

The DEP's "Don't Waste Our Open Space" campaign was launched in late March. Since the launch, investigations of illegal dump sites on state properties by State Park Police, Division of Fish & Wildlife's Conservation Officers and DEP's Compli-

ance & Enforcement personnel has resulted in 16 arrests or enforcement actions.

The program is a coordinated effort of a host of DEP agencies, including Parks, Fish & Wildlife, Solid Waste, Water Resources, State Forestry Services and the Natural Lands Trust. All activities of this new effort are posted on www.stopdumping.nj.gov, a new website that serves as a hub for the entire program.

Recent enforcement actions for the illegal dumping initiative, all conducted by

State Park Police Detective Timothy Kasony, include:

- Ronald Coleman of Trenton, was charged with illegal dumping at Duck Island and obstruction, stemming from an investigation of 12 contractor grade garbage bags filled with household debris left in an area of brush.

The contents of the bags were traced to a property owned by Coleman. The combined charges carry a maximum fine of \$50,000.

- Reeyanah Davis and Ajeris Gains, both of Sicklersville, have been

charged with illegal dumping after discovery of eight large trash bags filled with kitchen and bathroom items, a box spring and mattress at 4-Mile Preserve, one of the state's designated Natural Lands.

The contents of the bags, which included a check book and prescription bottles, were traced to a Sicklersville apartment where Davis and Gains formerly resided. Both suspects face a maximum fine of \$25,000.

See DUMPING, Page 7

TIRED OF DEALING WITH
UNSUPPORTIVE
UNSYMPATHETIC
UNKNOWNLEDGABLE
FINANCE COMPANIES?



S T A R T

dealing with

DADE Capital Corp instead!

We'll take care of you because we know
and understand your industry.

800-823-9688 | www.DADECapital.com

A Letter from the Editor

Readers,

I've never cared for flying. I mean, I tolerate it well enough, but the dry, recirculated air, the lack of any sort of leg room, and the constant jockeying for armrest position isn't high on my list of enjoyable activities. As if those minor inconveniences and generally miserable conditions weren't bad enough, now I can add the possibility of contracting Ebola to the list of air travel agonies.

Granted, the odds of actually contracting Ebola are still astronomically low in the United States, but those odds are officially higher than they were several months ago, and that's less than ideal.

The recent outbreak of Ebola does have some fairly serious ramifications for the waste industry. Recent estimates found that a single Ebola patient in the United States can generate eight 55-gallon barrels of medical waste each day. In some states, safely disposing of that enormous amount of waste safely and legally is posing a problem.

The U.S. Center for Disease Control recommends burning the contaminated medical waste, but some states (like environmentally-minded California), have blanket bans on the incineration of medical waste. That leaves those states in a bind when it comes to disposal, and exactly how they're going to safely get rid of contaminated medical waste is an open question still being addressed by legislators.

Some states have contemplated trucking the waste over state lines to be incinerated where such burning is not prohibited by law. To me, that's a scarier option than granting temporary exemptions to the incineration bans. In my opinion, the additional pollution is easier to remedy and less potentially disastrous than tossing the contaminated medical waste into a semi-truck and hoping that it arrives at an incineration facility without incident.

So stay tuned for next month's cover story, where author Mike Breslin will explore the contaminated medical waste problem in-depth. In the meantime, if you stay out of the hot zones, and don't volunteer to head overseas to treat Ebola patients, you're probably going to be just fine.

But if you see a guy on your next flight in a hazmat suit, make sure to stop me and say hello. I always enjoy meeting our readers.

Until next month,



Dave Fournier
Focus Section Editor
david@americanrecycler.com

EPA works to improve operations at landfill

The U.S. Environmental Protection Agency (EPA) and the owner and the operator of the Moca Municipal Solid Waste Landfill in Moca, Puerto Rico, have reached an agreement that will result in improvements at the landfill. The Municipality of Moca and Moca ECO-Park Corporation have agreed to take a series of steps, with EPA oversight, which will improve landfill operations, expand its municipal recycling program, protect a sensitive ecosystem and plan for the future closure of the landfill.

"This legal agreement will improve the operation of the landfill, improve recycling and for the first time establish a comprehensive composting program," said EPA regional administrator Judith A. Enck.

As part of the agreement, Moca will expand and improve the existing recycling program and create a composting program in the municipality. This recycling and composting program, which will be designed with EPA and community input, will be aimed at minimizing the disposal of recyclable materials, white goods, and food and yard waste. Moca will develop an educational and outreach program to inform the public of this recycling initiative, and will include outreach to schools, municipal facilities, small businesses and households.

The Municipality of Moca and Moca ECO-Park have also agreed to make improvements at the landfill,

including measures to stop operations in parts of the landfill, better manage stormwater, reduce dust, monitor ground water and install a landfill gas control system. In addition, Moca ECO-Park will continue to cover exposed areas of the landfill on a daily basis to help control odors and blowing debris.

Moca ECO-Park will ensure improved landfill security and will inspect incoming loads of waste to ensure that hazardous wastes, certain liquid wastes, scrap tires, recyclable materials, refrigerators and other appliances are not being sent to the landfill. Finally, the Municipality of Moca and Moca ECO-Park have agreed to not expand the landfill into the old karst forest and to maintain a buffer zone where no more waste may be placed between active parts of the landfill and sensitive areas, including the karst forest. The agreement requires the municipality to notify the EPA if it intends to request permission from the Commonwealth of Puerto Rico to build a new, properly-constructed landfill cell.

The Moca Landfill has been receiving waste since 1976. Between 1993 and 2009, the landfill was expanded from 20 acres to approximately 52 acres, with much of the past expansion impacting the karst forest. The landfill receives an average of 300 tons of waste per day, primarily from the municipalities of Aguadilla, Moca, San Sebastian, Aguada

and Las Marias, as well as from private waste haulers.

During inspections, the EPA discovered that the landfill lacked adequate security, adequate stormwater controls, and properly-working ground water and methane monitoring systems, and had steep and potentially unstable slopes. Also, the landfill had been expanded without installing required liners, and the landfill did not have a leachate collection system.

The Moca Landfill is surrounded by undeveloped, forested karst terrain, cattle pastures and rural homes. The karst region contains the richest biodiversity in Puerto Rico, with over 1,300 species of plants and animals, many of which are known to exist only in this area. The landfill is located over Puerto Rico's North Coast Aquifer System, which contains the most productive aquifer on the island.

The EPA held a public meeting in Moca to explain this agreement and to seek comment from the public. The proposed Administrative Order on Consent that details this agreement was subject to a public comment period. Based on comments from the community, the agreement was modified to address dust issues, make documents related to the agreement more readily available to the public and to provide increased opportunity for community involvement in the development of the municipal recycling and composting plans.

WM awards KAB affiliates Think Green grants

Keep America Beautiful (KAB) and Waste Management stated that \$10,000 Think Green® Grants were being awarded to 8 KAB community-based affiliates across the country.

The Waste Management Think Green Grants are part of the environmental services company's commitment to encourage the development and sustainability of environmental solutions that improve community environments. These merit-based grants support projects that KAB affiliates implement locally, such as recycling and

waste diversion education programs and other environmental initiatives.

Waste Management has supported KAB programs for several years and is active in KAB's flagship programs such as the Great American Cleanup and America Recycles Day. Waste Management also supports the KAB/Ad Council public service advertising campaign – I Want To Be Recycled – that is helping educate people about the importance of recycling and motivating the occasional recycler to become an everyday recycler.

Recipients of the Waste Management Think Green Grants are:

- Keep Charleston Beautiful, Charleston, South Carolina
- Keep Clinton Beautiful, Clinton, Mississippi
- Keep Detroit Beautiful, Detroit, Michigan
- Keep Durham Beautiful, Durham, North Carolina
- Keep Truckee Meadows Beautiful, Reno, Nevada
- Keep Virginia Beautiful, Richmond, Virginia
- Metro Beautification & Environment Commission, Nashville, Tennessee
- OKC Beautiful, Oklahoma City, Oklahoma

What do you get when you combine a joke with a rhetorical question?

Call John Monaghan, CPA, CVA for your expert financial advice.

EXPERIENCED IN SOLID WASTE & RECYCLING BUSINESS VALUATIONS

What's Your Business Worth?



VZN Group, LLC

419-882-1886
www.vzncpa.com

- Accurate Business Valuation
- Financial Forecasting
- Consulting
- Tax Preparation & Planning

John Monaghan, CPA, CVA

UPCOMING
Section B editorial
FOCUS TOPICS

Today is the BEST time to promote your company.

Ad space is limited,
so don't wait...
877-777-0043
www.AmericanRecycler.com

ISSUE	TOPIC	CLOSE
DEC	METALS	11/17
JAN	MUNI WASTE	12/16
FEB	C&D	01/19
MAR	PAPER/PLASTICS	02/16

Sacramento Governor signs organic waste legislation

Sacramento, California Governor Jerry Brown has signed two landmark bills that will drastically cut down on the disposal of organic waste.

•AB 1826, by Assembly Member Wesley Chesbro, will require businesses to separate their food scraps and yard trimmings for composting or anaerobic digestion.

•AB 1594, by Assembly Member Das Williams, will eliminate a loophole in state law that allows yard trimmings, prunings and other greenwaste that is used as landfill cover to count as being "diverted" from landfills.

This is huge news for California, and is expected to lead to major growth in the state's composting and anaerobic digestion infrastructure.

"Despite California's robust recycling infrastructure for traditional recyclables, the state continues to landfill organic materials at an alarming rate" said Nick Lapis, legislative coordinator for Californians Against Waste. "In fact, food is the most prevalent item in the disposed waste stream and over 40 percent of all material going to landfills is readily compostable or anaerobically digestible. This is simply unacceptable, and it is irresponsible of us to waste this valuable material."

Even in the best managed landfills, organic waste rots in an oxygen-deprived environment, which leads to the creation of upwards of 7 million tons of greenhouse gases each year, in addition to significant water and air pollution and long-term financial liabilities. Composting and anaerobic digestion not only avoid those impacts, but also build healthy soils through the introduction of organic matter, prevent soil erosion, reduce the need for chemical fertilizers and pesticides, and significantly increase water retention.

"Recovering this waste material doesn't just make environmental sense, it makes economic sense" Lapis added. "CalRecycle has estimated that digesting or composting a significant portion of our organic waste can generate an additional 14,000 jobs by 2020."

"Even though California leads the nation in waste reduction and recycling, we continue to dispose of nearly 13 million tons of food and yard waste each year in landfills, which is one-third of the waste stream," Assembly Member Wesley Chesbro said. "Food waste alone is the single largest component of the waste stream. Landfilled food and other organic materials are a major contributor to climate change."

"California is on the forefront of the farm to fork movement, but the next step is to move the entire state full circle and transition from fork to farm," Chesbro added.

"By getting rid of this loophole, we can get more green waste out of the landfill and into composting facilities," said Assembly Member Das Williams of AB 1594, "creating job growth, reducing the largest man-made source of methane and manufacturing soil amendments."

AB 1826 targets the lowest hanging fruit of the organic waste stream – the material thrown away by the state's businesses. Restaurants, super markets, large venues and food processors generate significant quantities of high quality food waste, and several states have already prohibited the disposal of this material. The bill lays out a measured phase-in of a commercial organics recycling program that will ensure that private sector can build the infrastructure necessary to handle the material.

AB 1826 builds on the success of the mandatory commercial recycling program established by AB 341. Begin-



AB 1826 will require businesses to separate their food scraps and yard trimmings for composting or anaerobic digestion. PHOTO BY ANGLIANART | DREAMTIME

ning with the largest generators of food waste in 2016 and ramping down to the vast majority of businesses over several years, AB 1826 bill will require businesses to sign up for organics recycling service.

AB 1594 is the culmination of a two-decade long fight over the very meaning of recycling in California. The bill finally overturns a 1996 law that allowed landfilled yard waste to count as being "diverted" from landfills, a practice that served as a major competitor to the true recycling of this material through composting and anaerobic digestion.

Landfills are required to be covered at the end of each working day to reduce

odor and vector impacts, and California allows yard trimming to be used for this purpose in lieu of traditional soil cover. By counting this practice towards a local government's recycling requirements, this policy had created a perverse incentive to landfill green materials instead of recovering the material and returning it to the soil through composting.

When residents take the effort to separate their yard trimmings into a separate container, they expect that material to be composted, but they are likely unaware that that material might be sent to the same landfill as their garbage. This fundamentally weakened the integrity of California's recycling goals and undercuts true recovery.

Sunshine produces renewable energy in California

Sunshine Gas Producers, a joint venture between DTE Biomass Energy and EIF Renewable Energy Holdings through its subsidiary Landfill Energy Systems, has started generating electricity from landfill gas at its recently constructed renewable energy facility at the Sunshine Canyon Landfill in Sylmar.

DTE Biomass Energy, the developer and operator of the project, declared commercial operation of the 20 MW facility at the landfill, owned and operated by Browning-Ferris Industries of California Inc., a subsidiary of Republic Services. Landfill gas generated at the site will be used to produce renewable energy to be sold to Pacific Gas & Electric under a long-term power purchase agreement.

The power plant, which includes 5 turbine generators and a staff of 4, is capable of generating enough renewable electricity to power nearly 25,000 California homes.

A&R EQUIPMENT SPOTLIGHT

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

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

UPCOMING TOPICS

12/14	Metal Shredders
01/15	MRF Technology
02/15	Portable Shears
03/15	Paper/Plastic Balers

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

7 YRS SPECIAL FINANCING

**ZERO DOWN
NO INTEREST
NO PAYMENTS**

For one year on Fabric Structures

BUDGET FRIENDLY FABRIC STRUCTURES

- Customized for recycling, material storage buildings and more.
- Lower energy costs with natural lighting.
- Stay warmer in the winter...and cooler in the summer.
- One-stop shop offering all services in house.
- Buildings up to 300' wide.
- Low in cost per square foot.
- Easy to expand and relocate.

MADE IN USA

ClearSpan
fabric structures

Call 1.866.643.1010 and use code ADAR or visit www.ClearSpan.com/ADAR and we'll send you a free gift.

EQUIPMENT SPOTLIGHT

Truck Scales

by **MARY M. COX**

maryc@americanrecycler.com

In addition to simply monitoring the weight of a load, the waste and recycling industries rely on truck scale efficiency for personnel and vehicle safety, vehicle maintenance and regulation compliance.

Mettler Toledo produces more than 5,000 vehicle scales and vehicle weighing systems worldwide each year. Vehicle weighing products include steel and concrete deck truck scales, rail scales, upgrade and conversion packages for existing scales, DataBridge™ vehicle-scale software, accessories and service for all makes and models of industrial weighing equipment.

The company is one of only a few scale manufacturers that designs and manufactures its own vehicle weighing components, including load cells and terminals. It also performs lifecycle testing on truck scales with a physical testing machine that loads scales one million times to ensure long-term performance.

Kyle Madsen, vehicle weighing specialist, said, "Our vehicle scales are frequently used in demanding, high-volume applications such as municipal waste and recycling, agriculture, chemical, mining and more. Heavy capacity Powercell® load cells withstand harsh environments from Death Valley, California, to Antarctica and are equipped with the lab-tested and certified StrikeShield™ lightning-protection system.

"The leading cause of scale failure often lies within a junction box. A few years ago, Mettler Toledo pioneered the first load-cell system with no junction boxes. To ensure accuracy in business transactions involving material weight, Powercell load cells are also equipped with patented smart technology. By monitoring variables such as ambient



Mettler Toledo

temperature, these systems provide consistently high levels of weighing accuracy, even between scale calibrations. This protects businesses from hidden profit losses due to undetected scale errors," Madsen said.

Rice Lake Weighing Systems is a global leader in the weighing industry with locations worldwide. The company is the largest scale manufacturer in North America. Rice Lake offers a full line of light, medium and heavy capacity static and in-motion weighing systems as well as unique products including legal-for-trade lift truck scales and on-board scales that can turn virtually any commercial motor vehicle into a legal-for-trade scale. Rice Lake Survivor truck scales are available with a 10 lb. display division. The enhanced accuracy and finer division size results in more accurate accounting of both inbound and outbound materials.

Joe Grell, vice president, heavy capacity products, explained the company's comprehensive customer support: "Rice Lake is the only scale manufacturer offering 24/7 support. No other weighing equipment manufacturer has as many independent sales and service providers as we do. Some weighing equipment manufacturers offer proprietary products that can only be serviced by their own company service employees. Rice Lake understands that local service providers you work with today may

change, or your enterprise may expand and require alternate sales and service providers. We also understand how a scale is a cash register of sorts, and how your business does not run without a properly functioning scale.

"We design our scales to provide a generation of service, not just service until the warranty expires. Regarding compliance, Rice Lake's network of over 2,300 independent scale service providers can provide certification contracts on the local level. Our iQUBE2 diagnostic monitoring system sends an email to operators, maintenance personnel and the local service provider when inaccurate weighing occurs. Potential issues can be corrected before the operator is even aware that a problem exists."



Vulcan On-Board Scale

Grell noted that the firm also offers price computing systems that print a legal-for-trade ticket showing the commodity, price per pound and final price. The systems keep track of total transactions, inventory by commodity and individual transactions with export capability to a wide variety of accounting packages. "Our automated ticketing systems keep drivers safely in their trucks allowing more transactions and reduced 'in-yard' times," said Grell. Along with truck scales, Rice Lake manufactures laboratory balances, test weights, bench and floor scales, load cells, tank and hopper weighing systems, process control instrumentation, railroad track scales and precision test weights.

For over 30 years, Vulcan On-board Scales has designed and manu-

factured on-board weighing systems for many applications and industries. "We have a large variety of on-board weighing options to meet each customer's specific application, budget and goals. For transfer applications we have a variety of scales depending on the sus-

See SPOTLIGHT, Page 5

Manufacturer List

Air-Weigh
Michael Ferguson
888-459-3444
www.air-weighscales.com

Avery Weigh-Tronix
James T. Little
800-533-0456
www.averyweigh-tronix.com

B-Tek Scale
Brett Kaufman
800-266-8900
www.b-tek.com

Cardinal Scale Manufacturing Co.
Randy Doyle
800-441-4237
www.cardinalscales.com

Emery Winslow Scale
David Young
800-891-3952
www.emerywinslow.com

Holtgreven Scale & Electronics
Len Holtgreven
800-637-3326
www.loadmasterscale.com

Intercomp
Mike Tetzlaff
800-328-3336
www.intercompco.com

Mettler Toledo
Kyle Madsen
800-638-8537
www.mt.com

Rice Lake Weighing Systems
Joe Grell
715-234-9171
www.ricelake.com

Vulcan On-Board Scale
Eric Elefson
800-237-0022
www.vulcanscales.com



Rice Lake Weighing Systems

Advertise.
877-777-0043

American Recycler
NewsVoice of Salvage, Waste and Recycling

Tell the world about it!

BJ's Wholesale joins EPA's Food Recovery Challenge

U.S. Environmental Protection Agency (EPA) regional administrator Judith A. Enck was joined by Senator Cory Booker, Congressman Frank Pallone, BJ's Wholesale Club's Doug Schiefelbein Community Food Bank of New Jersey's (CFBNJ) Tristan Wallack and Edison Mayor Thomas Lankey to announce BJ's participation in the EPA's Food Recovery Challenge program at the store in Edison, New Jersey. Participants in EPA's Food Recovery Challenge reduce, donate and compost as much of their excess food as possible, which saves money, feeds hungry people and helps protect the environment. As part of this new agreement, BJ's plans to develop new benchmarks to measure progress from its food donation program BJ's Feeding Communities as well as utilize EPA's tools to enhance its environmental programs and minimize its environmental footprint.

Food accounts for the greatest percentage, more than 20 percent, of waste going to landfills in the United States. One way to reduce that volume of waste is by donating edible food that would otherwise be thrown away. According to EPA's Municipal Characterization Report, Americans are wasting more than 36 million tons of food per year, 96 percent of which is thrown away into landfills or incinerators. The Natural Resources Defense Council estimates that this translates into a loss of approximately \$165 billion annually. At the same time, 14.9 percent of households in the U.S. were food insecure in 2011, meaning they did not know where their next meal would come from.

In addition to being the first wholesale club to join the Food Recovery Challenge, BJ's also recently awarded a grant of \$21,000 to the Community Food Bank of New Jersey (CFBNJ) in honor of the company's 30th anniversary and Hunger Action Month in September. The grant will help the Community Food Bank of New Jersey build capacity through the purchase of additional refrigerators, thermal blankets and other equipment for their partner organizations such as local soup kitchens and food pantries. The new equipment will help their anti-hunger partners store a larger amount of perishable items, thus distributing more nutritious options to local families struggling with food insecurity in New Jersey. The Food Bank was one of 30 grantees that BJ's Charitable Foundation awarded to Feeding America-member food banks across the 15 states where BJ's operates.

BJ's launched a chain-wide initiative, BJ's Feeding Communities Program in 2011 to help in the fight against hunger. In partnership with Feeding America, the nation's largest food bank network, BJ's Clubs donate unsold but still wholesome and nutritious produce, meat, poultry, fish and dairy to food banks and local agencies within the BJ's footprint. As of August, 2014 BJ's has donated over 22 million lbs. of frozen meat, poultry and fish, produce, dairy and bakery products to food banks, which is the equivalent of 18 million meals. Locally, the BJ's in Edison has donated 182,762 lbs. of food, which is the equivalent of 152,302 meals.

Global industrial waste market to double by 2020

Regulations that facilitate a shift away from landfill towards more value-adding segments such as recycling are lending momentum to the global industrial waste management services market. Adoption of industrial waste management solutions will remain strongest in developed economies that have successfully introduced laws and implemented frameworks for industrial waste treatment.

New analysis from Frost & Sullivan, Global Industrial Waste Management Services Market, finds that the market earned revenues of \$387.40 billion in 2013 and estimates this to reach \$750.09 billion in 2020.

Smart industrial waste management is becoming a defining factor in modern economies as primary materials become expensive, transportation costs increase, and waste handling and disposal costs escalate. Focus has turned to lowering refuse generation as well as reducing carbon and water footprint.

"The benefits of a circular economy based on sustainable industrial waste management has prompted companies to establish efficient collection and processing systems, therefore fuelling market revenues," said Frost & Sullivan Energy and Environmental Research Analyst Monika Chrusciak. "Preference for advanced waste treatment such as smart collection and sorting, recycling and incineration with

energy recovery adds to market growth."

Smart collection and processing are particularly important in a scenario where mixed material industrial waste presents low economic value, and requires excessive work and time to fulfil certain parameters. Moreover, the long-term cost savings associated with internal reduction of waste and recovery of valuable secondary resources will prove to be a boon in the long run.

Although developing countries have established preliminary regulatory structures for sustainable industrial waste management, the lack of consistency in governmental roadmaps poses a considerable risk for investors. Developing countries also base their waste management on cheap landfill sites, as new waste processing technologies involve high costs and specific skills for effective operation. Nevertheless, rapid industrialization in these regions will lead to a large generation of waste and push industries as well as governments to deploy efficient waste processing platforms and infrastructure.

"In fact, developing markets will account for nearly half of market revenues in the global industrial waste management services space," said Chrusciak. "Asia-Pacific, and China especially, will offer a multitude of market opportunities for participants as waste treatment practices evolve."

What does a buffalo father say to his son when he drops him off at school?

Bison.

Spotlight

■Continued from Page 4

pension of the truck and trailer used, including 5th wheels, center hangers, single points and air. Our V600 and V300 Series meters provide accurate weight data that drivers can use to optimize vehicle earning potential. For front loaders, we offer a front fork scale, body scales or deflection transducers. Rear/side loaders use body scales or deflection transducers. Roll-offs use our shear pins and hydraulic sensor," stated Eric Elefson, director of sales and marketing.

He said there are a variety of benefits in implementing an on-board weighing system, but this depends on the user's specific goals. There are various advantages that may result from putting a system in place. Residential and commercial vehicle efficiency is optimized by hauling the maximum legal payload on every trip to the landfill or transfer station without going to a platform scale. Overweight fines can also be eliminated, as well as additional travel to certified scales. Load transfer trailers can be quickly filled to the maximum legal weight at the loading point, without waiting in scale lines or driving to the nearest platform scale. Maintenance costs can be reduced and vehicle life increased by hauling loads that the vehi-

cle was designed to carry. Liability exposure due to increased braking distance from overweight vehicles can be reduced. Commercial or recycling pickup weights can be measured in an effort to optimize pricing or recycling rebates.

Elefson added that by investing in an accurate and reliable on-board weighing system a user can maximize the load and vehicle uptime while minimizing liability and safety issues caused by overloading.

got casters?[®]

CASTER RANCH, INC.

CASTERS · WHEELS · MATERIAL HANDLING COMPONENTS



Quality products at great prices!
Best service in the industry.

877-496-5300

gotcasters.com

MAURER GONDOLA TRAILERS

BUILT TO LAST!



"We're a small yard doing a couple thousand tons in a busy month. When Maurer Trailers showed us one of their gondola trailers with 8' side walls, we didn't think we could afford one. We used to buy used flat beds and our guys would build 5' & 6' gondola trailers for us on nights and weekends. After a few months, the side walls would cave or bow and they looked pretty bad. When we learned about Maurer's quality materials and how much more loose scrap we could haul, we bought a Maurer gondola. After running Maurer's trailer for over a year, our numbers indicate that every 4th load is free trucking and the gondola still looks great. We'll buy a second one soon."

Dan Garvin
President
Colorado Iron & Metal, Inc.



The Scrap Industry's Best Gondola Trailers – HARDOX[®] 450 Inside
Available in 40', 44' & 48' lengths



www.maurermfg.com
888-274-6010

A Closer Look

by Donna Currie

Florida Recycling

Daniel Jackson • 386-736-1109

Florida Recycling has been a family business for 87 years, according to Daniel Jackson. His grandfather, great uncles, father and uncles all worked for the business, and some are still there. "My father and grandfather have done this their whole lives," he said. Right now, the family members who are still involved are Jackson, his father, mother, grandfather and brother-in-law.



—The Florida Recycling Family

Although Jackson was "born into" the company, he didn't jump right into working there. He went to school for computer science and took "a few uninteresting jobs" and moved around a bit before he came back home to help the family business. "They needed a website," he said, and since he was always interested in electronics and computers, his first job was "helping them expand their online presence and networking."

Now, he's much more involved. "This is my family legacy. I just couldn't turn away from it." Now, Jackson helps unload trucks, and handles some of the paperwork. "Anything that needs to be done," he said.

Jackson described the business as a "small little recycling center" that takes in just about anything that's scrap metal, from aluminum cans, to appliances, to metal artwork. "Anything that's metal, we will take," he said.

Florida Recycling doesn't just buy and resell the materials as is, Jackson explained, "We break down everything." The pieces are broken down so metals can be separated and sold individually.

Besides taking scrap at their location, they also offer free appliance pickup for local residents, and have can baskets that they place at schools and churches for convenient collection of aluminum cans. "We want to help out the community," Jackson said.

"E-scrap has become very popular," he said. The company buys computers and laptops for recycling. Besides taking e-scrap from the community, they also get material from the local schools. He said that when he has visited some schools, they might have a shed full of obsolete computer equipment to dispose of.

He's hoping that the new website will help introduce the company to the community. To encourage more people to bring in their aluminum cans, there's even a coupon on the site for a few extra cents per pound for those cans.

He said that the company has one main truck that's used for hauling scrap, and family members who work there have pickup trucks that can be used for smaller quantities, but that there are times when there's "more work than we can keep up with." But that's a good problem to have, and the company plans on continuing to grow. "I would like to see our back yard used more," Jackson said, and he would like to be able to make larger deliveries to end users rather than making smaller deliveries to companies that do the shipping.

Looking into the future, Jackson said he'd like Florida Recycling to have its own shredder. "We can get close to that, maybe in 10 years," he said, based on the growth he's seen so far. In the near future, he thinks the company will need a second truck and trailer for pickups and deliveries.

While scrap metal and recycling weren't his first priorities and he still enjoys the computer end of the business, he has become more interested in the day-to-day operations, customer service and running a fork lift. "When it's your own, you have more passion for it," he said.

The best part, he said, is "talking to the customers and making sure they're happy."

The business also has its share of odd purchases, and Jackson thinks it could evolve into a side business. They often receive artwork made from strands of copper wire that could be sold for more than the value of the metal, and sometimes antiques make their way in, like solid brass elephant sculptures or antique baby carriages. "There's been a few weird things," he said.

While he's not ready to start a store, he does want to display products for sale for local customers, or perhaps start an online store for items that could be shipped. Besides the really quirky items, there are other pieces that could be sold for re-use or as decorative pieces, like golf clubs, cash registers, typewriters and license plates.

But that's just a sideline. What he's really looking forward to is expanding the business – which brings its own challenges. "We need the income to expand," he said, "and we need to expand to get the income."

Eleven more GM facilities achieve landfill-free status

Eleven additional General Motors facilities have achieved landfill-free status. The running total is 122 manufacturing and non-manufacturing operations spanning Asia, Europe, and South and North America that recycle, reuse or convert to energy all waste from daily operations.

"Our landfill-free movement is part of our culture of continuous improvement embraced by teams globally," said Jim DeLuca, GM executive vice president of Global Manufacturing. "Not only does it make our operations more efficient and help conserve vital resources, but we're able to reinvest the money we get from recycling into future vehicles for our customers."

GM's new landfill-free facilities include:

- CAMI Assembly (Canada)
- Colmotores Assembly (Colombia)
- Joinville Engine (Brazil)
- Zaragoza Assembly (Spain)
- Zaragoza Stamping (Spain)
- Grand Rapids Operations (Michigan)
- Burton Warehouse and Distribution Center (Michigan)
- GM Heritage Center (Michigan)
- Shanghai Headquarters (China)
- Luton Warehouse (England)
- Fontana Warehouse and Distribution Center (California)

The addition of these 11 facilities to landfill-free status helps GM avoid more than 600,000 metric tons of CO₂-equivalent emissions. This is comparable to the greenhouse gas benefit of 15 million tree seedlings grown for 10 years.

"Our ultimate goal is not to generate any waste at all," said John Bradburn, GM global manager of waste reduction. "Until then, we do everything we can to ensure it doesn't end up in the ground. From connecting our suppliers on special recycling projects to reusing packaging, we apply lessons learned across all of our operations to broaden the positive impact."

Employee awareness is key in the drive to landfill-free. Colmotores Assembly in Colombia launched awareness campaigns that engaged employees in reducing waste and sorting it correctly. GM's Shanghai headquarters, a LEED-Gold facility, formed a "Green Team" spanning IT, finance, facilities, R&D and supply chain departments to identify recycling and waste reduction opportunities. Luton Warehouse attrib-

utes its success to a robust training initiative that drove a zero-waste culture.

All of these facilities treat their waste as resources out of place and employ a number of methods to give them a second or third life.

Reduce: Zaragoza Assembly changed its manufacturing process to reduce solvent consumption from its paint shop; it now reuses 80 percent of it. Packaging continues to be a large waste stream for many plants and CAMI Assembly is tackling it by setting aggressive targets to reduce non-reusable packaging.

Reuse: Grand Rapids Operations' in-house oil recycling saves GM \$1.2 million per year. It recycles and reuses every gallon of oil it buys from a refinery several times.

Recycle: CAMI Assembly turns scrap wood into mulch for its wetlands and Grand Rapids Operations recycles grinding wheels as sandpaper. The Grand Rapids site also works with a partner that processes wastewater treatment sludge into a fuel source for the building materials industry.

Compost: Zaragoza composts wastewater treatment sludge to create fertilizer and Joinville Engine composts its organic cafeteria waste to provide additional nutrients for the site's trees and plants.

A strong network of recycling partners and suppliers helps facilities achieve their goals. Localizing the supply chain strengthens the business case and reduces overall carbon footprint. One of Zaragoza's biggest challenges was finding a nearby partner to efficiently transport and treat paint sludge so it could be used to generate electricity. Burton Warehouse and Distribution Center hired a waste technician to help sort packaging waste generated from expanded shipping and distribution operations. A new recycling partner helped push GM's Heritage Center to landfill-free status.

According to GM, landfill-free has no finish line. For example, Colmotores Assembly set a goal to work with suppliers on minimizing packaging waste and designing products for easier reuse or recycling.

GM's goal is to achieve 125 landfill-free sites globally by 2020. The company already has met its 10 percent total waste reduction commitment – 7 years ahead of schedule.

PWS revs up CNG conversion

Progressive Waste Solutions Ltd. (PWS) has added about 250 natural gas-powered trucks to its waste and recycling collection fleet since it announced its commitment in May 2013 to increase the number of compressed natural gas (CNG) powered trucks it purchases. The company now has close to 400 natural gas powered-vehicles on the road in North America, which represents approximately 10 percent of its collection fleet.

The use of natural gas as a vehicle fuel gained further prominence last

month when Prime Minister Harper released the Regulatory Cooperation Council Forward Plan, which specifically identified natural gas vehicle deployment as a priority area and committed both countries to take a more focused approach by federal policymakers on natural gas vehicle codes, standards, regulatory, and harmonization issues.

PWS's fleet of nearly 400 CNG powered vehicles operate in 10 markets – including 3 in Canada and 7 in the U.S.

B&M and MBTA to perform cleanup of Iron Horse Park site

The Environmental Protection Agency (EPA) and the U.S. Department of Justice have reached a \$4.2 million settlement with Boston and Maine Corp. (B&M) and the Massachusetts Bay Transportation Authority (MBTA) for partial reimbursement of EPA's past costs, and for full payment and performance of future cleanup work at the Iron Horse Park Superfund Site, Operable Unit 4 (OU4), in Billerica, Massachusetts.

The settlement between the parties calls for B&M and MBTA to perform the \$2.7 million remedy identified in EPA's

2011 "Record of Decision" for Operable Unit 4 on the site. The remedy addresses site-wide groundwater and localized sediment contamination. The two companies will also pay 100 percent of EPA's interim and future response costs, and approximately \$1.5 million of EPA's past costs associated with OU4.

Iron Horse Park, a 553-acre industrial complex which includes manufacturing and rail yard maintenance facilities, is located in North Billerica, Massachusetts. The site includes open storage areas, and former landfills and waste-

water lagoons. The site contains contaminated soil, groundwater and sediment.

The site was listed on the National Priorities List (aka, Superfund list) in 1984. In 1997, EPA determined that site-wide groundwater, surface water and sediment should be addressed as a fourth Operable Unit. Work to address other contamination at the site was conducted under two previous operable units, and work on the third operable unit is ongoing. The cleanup decision by EPA on necessary remedial actions for OU4 is contained in the July 25, 2011 final

"Record of Decision" and an "Explanation of Significant Differences" document dated July 22, 2014. Contaminants detected most frequently include volatiles, semi-volatiles, pesticides, polychlorinated biphenyls, asbestos and metals.

The remedy includes excavation of contaminated sediment in B&M Pond, monitored natural recovery of contaminated sediment in other locations, and long-term monitoring of contaminated groundwater.

Single stream

■Continued from Page 1

menting single stream collection is the integrated nature of the collection and processing system. Generally speaking, he said, cities provide the collection service, either directly or through contracts with private companies, while counties provide recycling services. Often, a city implements single-stream collection when the county-run recycling facility lacks the ability to effectively handle a single, mixed stream of recyclables.

"Collection and processing of recyclables have to go hand in hand," O'Brien said. In some locations, the spread of single stream collection was limited by the implementation of processing facilities that could effectively handle single-stream recyclables. Today, more recycling facilities are able to process single stream materials.

Another trend helping the effectiveness of single stream is a long term decline in the amount of glass – a difficult material for single stream to handle – in the recycling stream, O'Brien said. Some single stream communities have further reduced the amount of glass in the recycling stream by setting up separate collection centers for consumers to recycle glass that would otherwise go into the single-stream curbside bins.

Meanwhile, the cost pressures that encouraged adoption of single stream remain intact. These are significant, O'Brien said. When trucks had several separate containers for recyclable materials that the collector picked up from consumer-sorted curbside bins, it made collection runs significantly less efficient.

Collectors spent significant time emptying each bin into a separate truck compartment. One compartment would inevitably fill up before the others,

forcing the truck to return to the recycling facility to empty the full bin. That put more trucks on the road longer, which had a harmful effect on fuel efficiency, energy use and greenhouse emissions, he noted.

Another issue with sorting materials before pickup, whether it was done by consumers or workers at curbside, is that it did not accommodate automated collection. When recyclables of all types are placed in a single large curbside bin, trucks fitted with automatic loaders can be operated by one person who does not have to exit the truck to empty the recycling container. A single automated truck can service 800 to 1,000 households per day, while burning less fuel than a truck on a dual-stream or multi-stream pre-sorted route. This reduces the cost of collecting recyclables, and also lessens injury risk to workers.

The enduring collection efficiency advantage of single stream doesn't

mean the approach faces no further challenges. The Green Fence initiative in China, in which baled recyclables were turned away for failing to meet contamination standards, suggests that U.S. recyclers need to improve the quality of the materials they produce.

Some large private recyclers have set up separate glass-processing facilities to more effectively recover glass from single stream collection systems. And some public collectors are paying to ship glass elsewhere for processing. This suggests single stream's disadvantages are creating pressures.

But single stream continues to gain ground against other collection techniques despite its imperfect reputation. In the end, the collection efficiency argument is overwhelming, O'Brien said. "Single stream is here to stay," he said. "The basic reasons are increased recycling rates and collection efficiencies and lower costs."

Dumping

■Continued from Page 1

•William J. Larkin Jr., formerly of Egg Harbor Township, has been charged with illegal dumping after discovery of a boat registered to him was found in the White's Bog portion of Brendan T. Byrne State Forest.

A warrant has been issued for Larkin for failing to appear in Pemberton Township Court. He faces a maximum fine of \$25,000.

•Allan Alessi of Burlington and Laura Cornell of Browns Mills, were charged with a lesser count of illegal dumping due to a small amount of paper trash, found in the same section of the Brendan T. State Forest, which was traced back to them.

Alessi pled guilty to the charge and paid a \$133 fine. A warrant was issued to Cornell for failing to appear in Pemberton Township Court.

•State Park Police are also looking for assistance in locating a suspect believed to be responsible for a large pile of garbage bags, household flooring, decking and painting materials dumped at Duck Island in May.

The "Don't Waste Our Open Space" campaign incorporates strict enforcement of illegal dumping practices, while raising awareness of the problem through outreach and education.

Strategically deployed motion-sensor cameras have been set up in select state parks and wildlife management areas to help nab violators. Information on arrests and charges filed in connection with illegal dumping will be posted on www.stopdumping.nj.gov.

The DEP is being aggressive in its pursuit of civil and criminal complaints against violators. Penalties for illegal dumping in state parks and in fish and wildlife areas will include criminal fines of up to \$5,000 per violation and civil penalties of up to \$1,500 per violation. In addition, the state also will seek much stiffer penalties for major violations through the Solid Waste Management Act, which authorizes the DEP and county health departments to initiate civil actions for illegal dumping violations.

Illegal dumping, which includes everything from unlawful disposal of construction debris and old TVs and computers to the dumping of car parts and tires – and even entire vehicles – has been a growing problem in the state's vast natural holdings in all 21 counties in recent years.

Nearly all of the state's more than 170 publicly owned tracts, including state parks, state forests, wildlife management areas, marinas and natural lands and preserves, have been impacted by illegal dumping. These lands account for 813,000 acres of state-preserved open space.

Getting paid to sleep would be a dream job.



We're not just blowing smoke.

Advertising in American Recycler WORKS

877-777-0043 **www.AmericanRecycler.com**

BECOME A FAN ON FACEBOOK TO GET NOTICE OF MONTHLY AD SPECIALS.

Columbus McKinnon 2.2 Tire Shredder with Classifier



The Cutter Box was completely rebuilt by CM in 2013.

Can be seen in operation!

Priced at \$280,000



DADE Capital Corp.
800-823-9688

www.DADECapital.com



800-823-9688

www.DADECapital.com

Call or Click Today



92% of companies either finance or lease.
How can we help you?

2005 Harris GS 1100 Guillotine Shear/Baler/Logger

with 3 Conveyors

12,473 Hours

Throat: 34" wide

Box: 25'

Shear force: 1,108 NT

Five 100 HP Motors (special wound to run up 150 HP)

17-27 TPH

Conveyers:

Karl Schmidt all installed new in 2005

First conveyer is a shaker. 4' wide x 25' long.

Second Conveyor 4' wide x 26' long

Third conveyor a radial stacker 4' wide x 60' long.

Height of discharge 22' 10"

Entire System Priced at \$699,000.00

