



American Recycler

NewsVoice of Salvage, Waste and Recycling

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Non-ferrous metal recovery builds



ASR en route to the eddy current separators at the Upstate Shredding plant in Owego, New York.

PHOTO COURTESY OF LANG PHOTOGRAPHY

by MIKE BRESLIN

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Scrap metal processors are becoming increasingly clever at wringing out the last dollar from their waste stream. That includes recovering cleaner, greater weights of high value nonferrous metals. Ben Davis, manager of the magnetics division at Huron Valley Steel Corporation is considered by many in the industry as the dean of non-ferrous recovery. He had this to say about the state of the business, "A lot of shredders today have gotten away from autos and are going to smaller, low speed shredders for white goods because the volume of autos has gone down. The other major development over the past few years was development of image technology that senses and separates various non-ferrous by shape and color."

Huron, the largest processor of nonferrous in the world, buys from shredders in Canada and all over the United States except for some of the west coast states due to transportation costs and because west coast shredders export most of what they produce to Pacific rim countries,

mostly to China. Headquartered in Trenton, Michigan, Huron operates recovery and recycling facilities in Belleville, Michigan and Anniston, Alabama, and has a joint-venture with HVF West in Tucson, Arizona.

In addition to processing nonferrous, Huron has been designing and manufacturing eddy current separation equipment for nearly 30 years, both for its own use and for sale to nonferrous recovery operations. It also provides consulting services to shredders, municipal recyclers and landfills to maximize nonferrous yields. "I do more consulting work than anything else. My main job is to empty the shredder and not send anything to a landfill ... showing them how to arrange their material to get maximum recovery," said Davis.

Bill Close, sales engineer for Wendt Corporation, one of the world's largest shredder manufacturers, gave his opinion of the state of non-ferrous recovery. "There have been some pretty significant improvements in sensor based sorting equipment over the past few years, including optical, x-ray, near

infrared and electromagnetic in terms of recovering products from a waste stream. It's a very competitive industry and looking for improvements in processes to raise revenues is mission critical."

Coaxing non-ferrous out of a waste stream has always been a challenge and has been traditionally as much an art as a science. But science is playing a continually larger role. Investing in new technologies and incremental improvements in old ones can pay off. At least that is the business plan of Adam Weitsman, president of Upstate Shredding in Owego, New York.

In August, Upstate completed the first phase of a \$20 million dollar upgrade to its in-line auto shredder and added a new auto shredder residue (ASR) processing plant designed to maximize non-ferrous recovery. Weitsman is confident that this investment for downstream non-ferrous recovery will pay off quickly. "Our financial objective is to take all the non-ferrous out of the waste stream and get any marketable product we can. It should increase our net revenue

See RECOVERY, Page 9

ISRI calls on GM: Do not abandon your responsibilities

The Institute of Scrap Recycling Industries (ISRI) sent a letter to President Obama requesting his help with the recent decision by General Motors (GM) to withdraw from participation in the End of Life Vehicle Solutions (ELVS) program which is fundamental to the National Vehicle Mercury Switch Removal Program (NVMSRP). American taxpayers own a significant portion of General Motors. It is for this reason that ISRI sent the letter to President Obama highlighting the risk to the environment posed by GM's action. GM is hiding behind technical bankruptcy issues to undercut the Obama Administration's environmental and health concerns.

ELVS was given responsibility in 2006 under the EPA-facilitated NVMSRP to lead and coordinate the efforts of the auto manufacturers (including GM) to collect, transport, and properly recycle mercury switches removed from end-of-life vehicles by auto dismantlers and scrap recyclers. Auto dismantlers and scrap recyclers have been voluntarily removing these switches since 2006 under the NVMSRP program, which requires that the switches be sent to ELVS for recycling. Further, the NVMSRP established an incentive payment (currently \$4/switch) which is sent by ELVS to the

See RESPONSIBILITY, Page 8

Prices up in non-ferrous industries



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Solving the problem of sharps in recyclables

by DR. BURTON J. KUNIK

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While disposal of sharps (used syringes, needles, and lancets) at hospitals and other healthcare facilities is highly regulated, sharps disposal by consumers is largely unregulated and has become a major concern for recycling operations. Three percent of the United States population (approximately 9 million people) self-inject medications outside of healthcare settings, producing some three billion syringes that are discarded each year.

Sharps, when improperly discarded in household recyclables, can present the risk of injury and disease to community residents and employees, including those who work in waste collection, recycling and landfills. Disease-causing pathogens carried on used needles and syringes can expose workers to diseases such as HIV, hepatitis B, hepatitis C, and syphilis. Since the source of needles found in the trash or recycling is unknown, needlesticks can mean lengthy testing and post-exposure medication for the injured worker to reduce the risk of disease transmission – all at great expense. In addition, employee needlesticks and any resulting disease transmission must be documented on OSHA recordkeeping forms. Clearly, it is a major concern for both recyclers and for state and local governments to reduce the risk of injury and infection to employees at landfills, MuRFs and trash-sorting facilities from handling used sharps.

National and state standards

There is no national standard on sharps disposal by self-injectors. Until 2004, the Environmental Protection Agency (EPA)

advised home-injectors to put syringes into plastic bottles and dispose of them in the household trash. These sharps-filled containers often ended up in recycling, broke open and created potential disease exposure. Given the scope of such problems, the updated EPA guidance recommended solutions such as using government-approved systems to mail sharps for proper disposal, or physically taking used sharps to approved disposal centers.

Seven states now have laws or regulations restricting consumer disposal of sharps. For example, Louisiana prohibits any person from knowingly placing home-generated sharps waste in any container used for household or commercial collection of trash or recyclables. Massachusetts prohibits needles, syringes and sharps containers specifically from recycling as well as the solid waste stream. Oregon and Wisconsin have forbidden the disposal of sharps into household waste, which would include recycling, for more than a decade.

The California Medical Waste Management Act addresses biohazardous waste and sharps waste generated in a wide range of activities. It specifically prohibits the disposal of home-generated sharps into the solid waste, recycling, green waste or business waste streams. California legislators are now considering SB 486, which would require pharmaceutical manufacturers that sell or distribute medication that is self-injected at home to submit plans by July 1, 2010 to offer patients safe needle collection and destruction. Even states without laws still provide guidance against placing sharps into the recycling. For example, in New Jersey, sharps may be disposed of in the trash



if properly sealed in rigid containers with warning labels, but may not be disposed of in recyclables. However, as guidance only, it may not always be effective. Sharps still remain an identified hazard for MuRF employees across the country.

Disposal by mail and take-back solutions

In addition to laws restricting trash disposal... convenience, cost, and education, as well as other issues play a part in how self-injectors choose to dispose of their used sharps. California and other states acknowledge disposal by mail and take-back programs as being among the most effective strategies for consumer sharps disposal. This method was used for an innovative program in which Cathedral City, California became the first city in the nation to help residents dispose of used sharps with a disposal-by-mail program.

Now in its fourth year, the program in 2009 received a special award from the California Resource Recovery Association. Participants receive from local pharmacies a specially designed, mailable

sharps container with a shipping box, protective bag liner, complete instructions, a simplified tracking form and free postage for mailing to a fully permitted treatment facility where the containers and sharps are responsibly destroyed. By participating in the program, approximately 1,400 Cathedral City residents who self-administer medical injections have prevented more than 480,000 used needles and syringes from potentially ending up in MuRFs or local landfills.

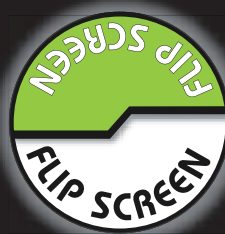
Given the extensive regulation of disposal and recycling for car batteries, oil and tires, it is inevitable that more state and federal restrictions will be imposed on used syringes, which could cause life threatening illnesses.

Recyclers should consider supporting disposal by mail and take-back programs as methods of dealing with sharps before they enter the recycling container.

For additional information about Dr. Kunik, view this article on www.americanrecycler.com.

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EPA awards tribes over \$86,000

The Environmental Protection Agency (EPA) awarded a \$38,553 grant to the Yurok Tribe and \$47,798 to the Karuk Tribe in Northern California to improve solid waste management practices within their communities following significant illegal dump cleanups led by a state-funded contractor with tribal assistance.

To date, more than 200 tons of solid and hazardous waste, including tires, appliances, batteries, flammable and toxic solids, and 400 vehicles have been removed from the Klamath River watershed. The cleanup effort began in October 2008 and has since significantly reduced health threats caused by illegal dumping along the Klamath and Trinity Rivers.

The tribes will use the EPA grants to integrate and expand current recycling programs and develop a system to track current recycling in an effort to move their communities back toward sustainable waste management practices.

In August 2008, the California Integrated Waste Management Board approved \$800,000 in initial funding.

Texas Carpet Recycling wins 2009 STAR Award

Texas Carpet Recycling won the 2009 Outstanding Construction & Demolition Debris Reuse/Recycling Leadership Award from the State of Texas Alliance for Recycling (STAR).

The company received the award at the 12th Annual Recycling & Sustainability Summit at the STAR Annual Leadership Awards Ceremony in September.

Texas Carpet Recycling, an offshoot of Thomas Holland's Corporate Floors, Inc., is the only local, full service landfill diversion alternative for commercial carpet. The company offers end-users, dealers, and mills an efficient local alternative to expensive, unsustainable landfills.

Texas Carpet Recycling plants one tree for every ton of carpet processed through their partnership with American Forests.

Every 90 days, Texas Carpet Recycling plants an average of 500 trees.

NRC/KAB merger not approved by members

Board votes to file bankruptcy

The board of directors of the National Recycling Coalition, Inc. (NRC) announced that the membership vote on the proposed combination of NRC and Keep America Beautiful, Inc. (KAB) has fallen short of the two-thirds majority required to approve the proposal.

Forty-six percent of NRC's membership voted on the combined proposal, with 57 percent voting in favor.

The board had asked the NRC members to support a proposal to combine NRC with KAB as a means to continue the recycling mission of the NRC. The boards of KAB and NRC had voted in favor of the proposal on June 2 and June 5, respectively, but the NRC could not proceed without the approval of two thirds of the member votes cast, as required by the governing law in New York State where NRC is incorporated.

"Although the KAB proposal received the support of a significant majority of our members - 57 percent - it did not receive the necessary two-

thirds majority in order for the NRC board to proceed with implementing the proposal," stated Melinda Uerling, president of the NRC board. "We recognized from the beginning that the two-thirds majority was a steep hill, and the results reflect that."

In the absence of the KAB combination, the NRC board of directors of the voted that it will expeditiously file for Chapter 7 bankruptcy.

"The decision was a very difficult and troubling one, but in the end, as a matter of our fiduciary responsibility, the board was left with very few options given the organization's cash position. Our hope - however distant right now - is that a stronger organization, with broad representation, may emerge from within our community," said Melinda Uerling, NRC board president.

In light of NRC's financial circumstances, it will cease operations and terminate all staff effective close of business September 4, 2009.

Vermont ski resort area constructs wind turbine

Bolton Valley Resort, located in Vermont, has announced construction of a wind turbine that will be operational in late autumn. It is the first wind turbine to be constructed at a Vermont ski area.

The turbine will be located near the top of the resort's Vista Quad lift in an existing clearing adjacent to the ski patrol hut. It is designed to produce in excess of 300,000 kilowatts of power annually, the equivalent of electricity consumed by 40 to 45 Vermont households.

The turbine, a Northwind 100 manufactured by Northern Power Systems of

Barre, VT measures 121 feet in height from the ground to the top of the tower. The distance from ground to the top of the blade is 156 feet. Each blade is coated with Teflon to protect against icing. It is the same process used on turbines in the Bearing Sea. The turbine will not be obviously visible from beyond five miles away from the site.

The turbine will be set up to feed excess power that is not consumed by Bolton Valley into the grid through the Vermont net metering program.

CDII Trading enters partnership agreement for metals procurement

China Direct Industries, Inc., a United States owned, holding company operating in China in two core business segments, pure magnesium production and distribution of basic materials, announced that its wholly owned subsidiary, CDII Trading,

Inc. has entered into a strategic partnership agreement with China Armco Metals, Inc.

As part of this relationship, CDII Trading is in the process of arranging an initial shipment of copper ore sourced out of Zambia, Africa.

Former National Recycling Coalition executives join Keep America Beautiful's staff

Keep America Beautiful (KAB), the nation's largest nonprofit community improvement organization, announced the hiring of three former National Recycling Coalition (NRC) executives.

Ed Skernolis, formerly acting executive director of the NRC, will serve in the capacity of KAB's vice president of recycling; Anjia Nicolaidis, formerly deputy director of the NRC, will be the KAB's director of recycling, and Alec Cooley, the NRC's collegiate programs manager, is joining KAB as its manager of recycling programs.

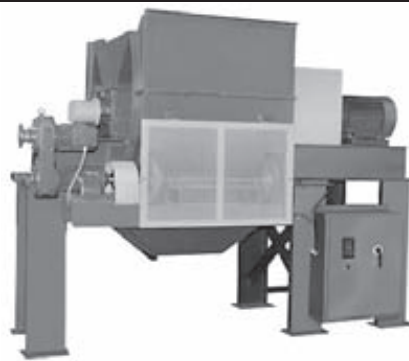
The hiring of former NRC staff comes in the wake of NRC's recent decision to cease operations and file for Chapter 7 bankruptcy.

In the newly created vice president post, Skernolis will help develop KAB's

recycling programs and will help the organization chart a course toward even more robust recycling programs and advocacy.

As the acting executive director of NRC, he managed strategic initiatives that included policy development, program management and stakeholder dialogue around development of nationally-focused sustainable materials management policy. As she had with NRC, Nicolaidis will serve as the primary manager of broad-based initiatives for programs such as this year's America Recycles Day. Cooley will continue to oversee collegiate programs such as the KAB's sponsorship of the RecycleMania competition, among other responsibilities.

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New York beverage dealers arrested in scam

Eight Long Island residents have been arrested on grand larceny charges for their involvement in a scheme to redeem cans, bottles and other recyclable beverage containers repeatedly as a way to steal millions of dollars from Anheuser-Busch, Pepsi, Miller Brewing Company, their wholesalers, and other corporations.

Five of the eight defendants are Long Island retail beverage dealers who accepted hundreds of thousands of already redeemed bottles and cans to be redeemed again, collecting seven cents for each illegal redemption.

"The investigation found that, instead of recycling the bottles and cans, Boro Recycling would send them back out onto Long Island to certain soda and beer retailers – their partners in the scheme – who would redeem the cans and bottles again, collecting hundreds of thousands of dollars for another trip through the system," district attorney Thomas Spota said. "It's a profitable perversion of New York's beverage container recycling law and we suspect it's been going on for years."

Attorney general Andrew M. Cuomo said, "This scam siphons money from our State's already overburdened budget while undermining the environmental protection fostered by the Bottle Bill. By all indications the alleged corruption being announced today is not limited to Suffolk County. As part of our efforts, my office has already subpoenaed four companies and we will con-

tinue this investigation throughout New York State."

"If you multiply millions of bottles and cans by seven cents and it is plain to see beverage companies are paying millions of dollars more than they should in deposit fees, said Spota.

Peter Sidote, of Dix Hills, the owner and operator of Party Time Beverage in Brentwood, is suspected of being the central Long Island broker for the scheme. Sidote is charged with second degree grand larceny. Sidote would allegedly receive the already redeemed cans and bottles from Boro and then distribute the previously redeemed containers to other complicit beverage dealers, a strategy designed to avoid detection by law enforcement.

Joseph Luzzi, of Bayside, is the owner and operator of Boro Recycling. Luzzi is charged with second degree grand larceny. Under his control and direction, beverage dealers were recruited to participate in the scheme to illegally re-redeem bottles and cans. Investigators believe Luzzi was involved on a day to day basis with every aspect of the illegal operation.

Robert Grady, of East Stroudsburg, Pennsylvania, is an employee of Boro Recycling who allegedly acted as the liaison between Luzzi and Sidote and the other beverage retailers who participated in the scheme. Grady is also charged with second degree grand larceny. Prosecutors say Grady scheduled the deliveries of the already redeemed cans and bottles to Long Island for re-redemption and on many occasions drove the trucks to deliver the contraband himself.

The other beverage dealer defendants charged with second degree grand larceny and alleged to have participated in the redemption scheme are:

Robert Almes, owner and operator of Islip Cold Beer, 175 Grant Ave., Islip; Kwang Jhony, owner and operator of S&H Distributors, 70 West Suffolk Avenue, Central Islip; Joseph Sciara, owner and operator of Bellmore Beverage, 1377 Newbridge Rd., Bellmore, and Michael Lisi, owner and operator of Monarch Beverage, 505 Long Beach Blvd., Long Beach. Lisi is charged with third degree grand larceny.

Recycling increases in Minnesota

As a supplement to the state's Recycle MORE campaign, the Curbside Value Partnership (CVP) joined forces with the Recycling Association of Minnesota and the Minnesota Pollution Control Agency. Three communities were selected with fairly intense education conducted and evaluated over a three-month time frame.

Among the participating communities, Minnesota saw an average 13 percent improvement in recycling volume over years prior.

Beginning in November 2008 on America Recycles Day, CVP worked closely with St. Louis County, McLeod County and the Western Lake Superior Sanitary District, which represents Duluth, to improve collection in collaboration with Recycle MORE, the State of Minnesota's statewide initiative aimed at increasing residential recycling awareness and participation.

The state of Minnesota was selected by CVP, a national invitation-only program of Keep America Beautiful designed to help communities grow their curbside programs through education, because of the strength of its statewide education campaign and leadership in recycling. Together with the Recycling Association of Minnesota (RAM) and the Minnesota Pollution Control Agency (MPCA), CVP implemented and measured a grassroots and social marketing campaign designed around existing Recycle MORE creative material to reach residents through strategic marketing and media relations.

To help increase Minnesota's recycling rate, McLeod County, St. Louis County and Western Lake Superior Sanitary District (WLSSD) launched a series of advertisements, including billboards, grocery store displays, movie theater ads and local public access channel ads. The advertisements were designed to motivate residents to recycle more – whether at the curb or at the many regional drop-off sites. CVP supplemented the existing ad campaign with in-store promotional displays at area retailers, thanks to a partnership with Bernick's Pepsi Bottlers.



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City Carton Recycling holds annual charity golf outing



Joe Gitich (left), Coralville, Iowa, sunk a hole-in-one at the charity golf outing. Congratulating Joe are (right to left) Sean McCarty, Brown Deer Head PGA Golf Professional; Dave Prohaska, Lujack's Northpark Auto Plaza; and Brian Holtz, City Carton Recycling.

The City Carton Recycling annual golf outing benefits the American Cancer Society's (ACS) children's programs through the "Debbie Ockenfels - Kids Rock!" Foundation. Portions of the proceeds are donated to "The Heart Connection" - a camp for kids with cancer and their siblings and the ACS's Scholarship Program. All expenses are paid by the Ockenfels Family Foundation. The outing is held in memory of Deborah Ockenfels, daughter of City Carton Recycling founders Mort and Marcy. Deborah died of cancer at the age of 17.

Over 160 golfers, from across the United States and Canada participated. Over 40 more friends, family, and City Carton Recycling team members assisted

with the event at the Brown Deer Golf Club in Coralville, Iowa.

Money is raised in a variety of ways. A large portion is pledged in activity and hole sponsorships prior to the Outing. "Premier" sponsors joining City Carton Recycling and the Ockenfels Family Foundation in the event this year included Trex, Pralumex, L & P Wire Tie Systems, Waste Management - Recycle America, Core Vens Insurance, Hills Bank & Trust, Point Builders LLC, Machinex, Kathy and Andy Ockenfels, IPS Balers, and Vecoplan.

Over \$659,400 has been raised for the American Cancer Society and children's cancer programs since the start of the Charity Golf Outing 15 years ago.

\$1.2 million awarded to boost use of recyclables

Pennsylvania Governor Edward G. Rendell announced four Pennsylvania companies will receive \$1.2 million in financial assistance to increase their use of recycled materials in the production of finished goods.

Recycling Market Infrastructure Development grants enable companies to invest in their own operations, contribute to the growing recycling industry in Pennsylvania and at the same time help improve the overall business and economic climates in the commonwealth.

"Recycling plays an important role in managing the waste we generate," said Governor Rendell. "To truly complete the recycling process and make it work to everyone's advantage, we must also reuse our recycled materials more efficiently."

The reimbursement grants are awarded to businesses and nonprofit organizations that manufacture a product or reuse an existing product with recyclable material from Pennsylvania. Entities that want to begin using recyclable material are also eligible. Grants of up to \$500,000 are available for any single recycling infrastructure development project.

The following is a list of the four Recycling Market Infrastructure Development grants:

Team Ten, LLC (dba American Eagle Paper Mills (AEPM)) - \$500,000 to add dispersion and bleaching systems to its recycled fiber operations. This will enable AEPM to process and use an

additional 14,880 tons annually of fiber rejects and junk mail from Pennsylvania sources, increase the post-consumer fiber content in its paper products, and reduce its annual operating expenses.

Chambersburg Waste Paper Co. Inc. - \$82,240 to purchase a high-capacity fiber shredder, capable of manufacturing up to 5,750 tons of animal bedding annually. The bedding material will be made from recycled newspaper, cardboard, and junk mail collected from the local area.

Casual Living Unlimited LLC - \$493,936 to purchase post-consumer and post-industrial high density polyethylene plastic processing equipment and an additional extruder. This will enable the company to improve the quality of its recycled plastic feed stock used to manufacture outdoor furniture. The company will be able to use 890 tons of recycled waste plastic from Pennsylvania sources. This project will also create five new full-time positions.

Meridian Precision Inc. - \$132,047 to purchase pulverizing equipment that will increase the use of recyclable plastic materials and allow the company to process traditionally more challenging waste plastics such as post consumer film, shrink wrap and other commingled and cross-contaminations plastics. The company will use an additional 900 tons per year of waste plastics, 240 tons of which will be from post-consumer sources and create six new full-time positions and three part-time positions.

EPA and New York City establish audit program

In a move that will ensure the proper handling of many thousands of bulbs that contain toxic mercury and computer monitors that contain lead in New York City, the United States Environmental Protection Agency (EPA) has reached an agreement requiring the city to pay \$50,000 in penalties and launch a comprehensive program to properly manage such wastes.

Inspections of several buildings managed by the Department of Citywide Administrative Services (DCAS), an agency of the city, revealed improper disposal of mercury-containing light bulbs as well as used computer monitors. The city agreed not only to comply with requirements, but also to surpass them by spending at least \$300,000 on a multi-facility, self-audit program to assess compliance with hazardous waste management requirements.

The comprehensive audit program will cover more than 800 buildings owned

or operated by the City of New York. The program will play a critical role in protecting human health and the environment by identifying, correcting and preventing violations of environmental regulations. Under the agreement the city has also committed to attempt to increase the recycling of spent bulbs and used computer monitors at their facilities.


Violations of hazardous waste disposal regulations were discovered from 2003-2005 during inspections of seven facilities managed by DCAS. Based on observations EPA made during the inspections and subsequent responses to requests for information, EPA concluded that DCAS had failed to make a hazardous waste determination with regard to spent fluorescent lamps or used computer monitors at the inspected facilities. Additionally, EPA observed that DCAS had failed to meet labeling requirements and had failed to package the waste properly.

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ON TOPIC — Q & A

by Irwin Rapoport

Engine disabling raises questions

The auto recycling industry has raised concerns about the prescribed method required to disable the engines of vehicles that are being turned in as part of the federal government's Cash for Clunkers program.

To learn more about the situation facing the industry, American Recycler queried Herb Lieberman, a former Auto Recyclers Association (ARA) president, who is currently LKQ Corporation's corporate industry liaison.



—Herb Lieberman

The Cash for Clunkers legislation requires that the engines of vehicles that qualify for the program must be disabled. What method do they require for the disabling of the engines and has this negatively impacted the recovery of parts for resale or those set aside for scrap?

Lieberman: Per the C4C regulations, the dealer is required to disable the engine by draining the engine oil and adding a chemical which renders the engine inoperable. During this procedure many other internal parts of the engine are compromised and of no use except for metals recycling.

This negatively affects the resale of those parts for both direct reuse or for rebuilding or remanufacturing purposes. Some of those parts such as the engine block and cylinder head are prohibited by the C4C law to be made available for any use except for metals recycling.

Was the auto recycling industry consulted prior to the writing of the regulations in the legislation as to how they would impact auto recycling operations in terms of processing vehicles and financial issues?

Lieberman: The Automotive Recyclers Association was very involved in both the legislative and rule making process. For sure it did not get all that it felt was in the best interest of the C4C program, the consumers or the motor vehicle recycling industry but many of its suggestions were incorporated in the act.

It was through ARA's efforts that all parts of the "clunkers" could be made available for reuse, rebuilding or remanufacturing except for those specific items contained in the legislation.

What are the positive and negative effects of the cash for clunkers program in regards to the auto recycling industry?

Lieberman: The positive effects for the automotive recycling industry are quite simply if the

program were able to keep people working in other industries and in some way help the economy and the consumers then the recyclers would benefit indirectly by doing its part. On the negative side it took away potential customers for parts to keep the "clunkers" in safe drivable condition. Many of those "clunker" owners were our customers. We also saw this as a temporary "fix" to spur car sales, which it did, and only time will tell if its effects will have long-term positive results.

What changes would the auto recycling industry recommend in order to remove the problems associated with the regulations?

Lieberman: I cannot speak for what changes the motor vehicle recycling industry would seek to mitigate the negatives. But as a recycler myself for over 50 years, I am a believer in the market place establishing its own goals and programs to deal with sales promotion as well as industrial, ecological and consumer benefit.

As I understand it, this is just what is happening in Canada at the moment with GM implementing their own C4C programs in concert with the recycling industry.

The cash for clunkers program in Germany did not require that engines be disabled and that they could be disassembled for parts. What are the advantages of the German program and would it be possible for the federal government to adopt those measures?

Lieberman: You are correct that in Germany the engines did not have to be taken out of the stream of commerce. ARA advocated for the same consideration in the United States program, but it was not accepted.

I believe this will have long-term negative effects on the consumer that can least afford it to have to opt for more expensive repairs because these parts will not be available.

Navistar and Caterpillar announce joint venture

Navistar International Corporation and Caterpillar Inc. closed a joint venture transaction resulting in a new company, NC2 Global LLC, to serve the global commercial truck market. Navistar and Caterpillar first announced plans to form a joint venture in June 2008 and have identified the leadership team that will establish its headquarters in the Chicago area.

Bob Iacullo has been named chief financial officer for NC2. Formerly business resource manager for Caterpillar's Infrastructure Product Development Division, Iacullo also held several executive positions in finance at Motorola.

Navistar and Caterpillar also have named key business unit directors for product development, sales and marketing, dealer operations, production, supply chain, and parts and service.

Navistar and Caterpillar each have named three people to NC2's board of directors.

Caterpillar group president Doug Oberhelman will serve as chairman of the board and Navistar truck group president Dee Kapur has been named lead director from Navistar.

The 50/50 joint venture will develop, manufacture and distribute commercial trucks with an initial focus on markets in Australia, Brazil, China, Russia, South Africa and Turkey. NC2's product line will feature conventional and cabover truck designs and will be sold under both the CAT and International (Navistar) brands.

Separately, Navistar and Caterpillar continue to work on design and development of a new proprietary, purpose-built, heavy-duty CAT vocational truck for the North American market. The trucks, manufactured in Navistar's Garland, Texas facility, will be sold and serviced through the CAT North American Dealer network. Caterpillar vocational trucks are scheduled for full production in mid 2011.

Responsibility

■Continued from Page 1

auto dismantler or scrap recycler. The incentive is intended to help defray the cost of removing and handling the switches. It has been shown to be necessary to ensure high switch recovery rates, thus significantly reducing the amount of mercury released into the environment.

"GM contributes over half of the funds to operate ELVS (based upon GM's share, which is 53 percent of the mercury switches in vehicles that remain in commerce today)," ISRI president Robin Wiener points out in the letter. "It is critical that GM continue to fund ELVS if the thousands of small to medium-sized businesses that comprise the auto dismantling and scrap recycling industries are to have a safe, responsible, and cost-effective option to which the mercury switches removed from end-of-life vehicles can be sent," the letter stated. "Second, the incentives referred to above have been paid through an EPA-facilitated Memorandum of Understanding (MOU) detailing the ele-

ments of the NVMSRP and signed on August 11, 2006 by the automotive scrap recycling, dismantling, and steel industries, as well as the states and several environmental organizations."

"Given the current state of the economy, the NVMSRP is in danger unless it is adequately funded going forward. Discussions are currently under way in the Congress to address the future funding of the NVMSRP but with no certainty as to the result. As such, we ask your support to ensure that these proven incentives continue," the letter concluded. "The scrap recycling industry respectfully requests that your administration take the necessary steps to keep GM's support of ELVS in place. ISRI also respectfully requests that your administration consider providing the necessary funding to replenish the NVMSRP incentive fund that supports the small businesses that are tasked with ensuring the mercury is properly removed from these old cars, and that it is also a necessary part of the CARS program."

In the early 1990s, GM heard from the scrap recycling industry and others that the continued use of mercury convenience light switches would lead to environmental problems. Despite the ready availability of suitable alternatives, GM continued installing mercury convenience light switches until 2002. Then a coalition, including the scrap recycling industry, the environmental community and others, forced GM to stop by supporting legislation in the states mandating that GM pay for the removal of these switches before recycling. Subsequently, GM and other automakers voluntarily established ELVS and committed to the NVMSRP. "We think it is crucial that GM, which has taken approximately \$25 billion in bail-out funds from the public coffers, step forward and renew its \$1 million per year commitment to removing mercury, a proven health threat to children and pregnant women, from its end-of-life cars," stated ISRI President Robin Wiener. "This is really a matter of principle and GM should do the right thing by renewing its participation in the ELVS program."



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Recovery

■Continued from Page 1

by approximately \$20 million a year, basically by recovering material that we now landfill as well as having higher quality commodities to sell.”

Upstate Shredding and its sister company Ben Weitsman & Son has scrap yards in Owego, Binghamton and Ithaca, just acquired land in Syracuse for a new facility and is planning another yard in Scranton, Pennsylvania. From this feeder system as well as from scrap dealers in Canada, New England and the Mid-Atlantic states, vehicle bodies and other scrap metals come to Upstate's Owego mega-shredder, currently a 6,000 h.p. M-120-104 unit by Riverside Engineering. Working seven days per week, Upstate processes approximately 600,000 tons per year and is New York State's largest scrap metal processor. Approximately 90 percent of its production goes overseas to China, India and Turkey.

“Adam's going from a yard that did not have much separation to one that has a great deal of separation and recovering metals he was not able to do before. It's really nice,” said Rusty Manning, Riverside's new equipment sales manager. Early next year Riverside will install its latest 10,000 h.p., 450 ton per hour, M-122 mega shredder at Upstate – a more durable machine with tougher wear-parts that will cost Upstate less per ton to process. It will include Riverside's latest iteration of its Shredder Cruise Control, a feed roll platform that automatically adjusts the feed rate to maximize output while reducing power consumption and the need for operator interaction.

By the end of this year, Riverside will add SGM Magnetics Polishing Drum Magnets to Upstate's downstream shredder that will automatically produce a less than 0.18 percent copper content ferrous frag and facilitate the recovery of “meatballs,” electric motors containing valuable copper armatures. The move is designed to minimize manual picking, which will reduce labor costs and increase productivity. “This new technology was developed over the past few years and we are incorporating it into our separation system,” said Manning. After high-strength magnets remove the ferrous shred, lower-strength magnets attract the ferrous components of the motors such as housings and steel shafts and remove the copper bearing motors from the stream. “This hasn't caught on very well, but more and more people are beginning to look at this technology when considering upgrades,” Manning added.

According to Didier Haegelsteen, SGM Magnetics' managing director, SGM Magnetics added this polishing drum magnet technology an exclusive development allowing the drum magnets to always feature the same attraction force that is compulsory to perform an accurate separation.

Adam Weitsman worked closely with SGM Magnetics to design his downstream ASR recovery plant that incorporates SGM's latest ideas and separation technologies. “I would say it ranks as one of the highest technology plants in the world. I don't know of anyone else who has done this before. There are not many automobile shredders that take residue and have all of the eddy currents, sensors and also have the dry media plant all under one roof,” said Haegelsteen.

Being under a roof is also new for Upstate. The entire 200,000 sq. ft. facility is being roofed over and enclosed. “We are doing this to conform to New York State Department of Environmental Conservation storm water regulations related to run off from iron and ASR. We also built a storm sewer system and an on-site, sand filter water treatment plant to remove heavy metals, solvents, and other substances,” said Weitsman.

The residue plant starts with a screening process splitting the ASR material into four streams: $<.63$ ”; from $.63$ ” to 1.25 ”; from 1.25 ” to 5 ”. Anything over 5 ” is sent back to the shredder. The two first fines fractions are processed by dynamic ferrous separators before passing on high frequency eddy current separators, while the large fraction (>1.25 ” to 5 ”) is processed by a drum magnet before passing on a standard eddy current separator still spinning at 3,000 rpm. The next separation step implemented by Upstate for the two fractions over $.63$ ” is passing over inductive sensor separators to recover the typical 1 to 2 percent metals missed by the eddy current separators, made of predominately stainless steel, but also including insulated copper wire, copper, aluminum, magnesium, nickel, tin and zinc. This commodity, predominately stainless steel, produced by the new inductive sensor technology is classified as Zurik by ISRI.

The eddy current processes, as well as the induction sensor separation processes aim at recovering the maximum quantity of metals in the ASR while the next processes bring further added value to the Zorba recovered by the eddy current separators. Zorba is the ISRI spec for the mix of metals recovered by eddy current separators processing ASR that is predomi-



Upstate Shredding's plant in Owego, New York.

nately made of aluminum (about 70 percent). Zorba, as such, can be sold to either China or to domestic heavy media plants. The idea is to look for extra value by separating the aluminum from Zorba as well as separating the red and yellow metals from the heavies. The benefit comes not only from the extra value the market pays for separated single metal commodities, but also offers disposal alternatives to China and domestic heavy media plants by selling the aluminum to aluminum smelters, and the red and yellow metals to either brass or copper smelters.

At Upstate, Zorba produced by the eddy current working on material from 1.25 ” to 5 ”, is sent to a dual-energy x-ray separator that identifies particles by atomic density and segregates the aluminum from the heavier metals, typically zinc, copper and brass. “Thanks to a different program on the x-ray separator, a further possible added value can be brought to the aluminum by discriminating the sheet from the cast aluminum as we have already proven in Europe,” said Haegelsteen.

X-ray detection technology is not dependent on particle sizes, however, the smaller the material the lower the productivity of the x-ray separators. This is why at Upstate the x-ray is only dedicated to the process of particles that are 1.25 ” to 5 ”.

For Zorba less than 1.25 ”, SGM supplied Upstate with four Sandjet separators. The Sandjet consists of a dry media plant that works on the same principle as a wet media plant, but instead of using ferro silicium to bring the liquid density up to that of aluminum, Sandjet uses sand fluidized through air jets to bring the density down to that of aluminum and sinks the heavier zinc, copper, brass and stainless.

Fluidized sand works on a shifting mechanism and the vibration carries the aluminum particles off by inertia. SGM claims that separation is better or equal to wet media separation at less operational cost because it eliminates the sludge recycling process. “The Sandjets take the copper out of the aluminum. We had been selling copper at the aluminum price because it was mixed in,” said Weitsman.

A new SGM Optic Color Sort System further segregates yellow and red metals coming off the Sandjet. Upstate installed six units, each employing multiple, ultra high-speed, high resolution CCD cameras covering a 48” belt width. Particle images are fed into a computer that uses a proprietary algorithm that discriminates between individual metal particles and either accepts or rejects a particle based its shape and color. After passing under the cameras, accepted particles are automatically air ejected.

According to Haegelsteen, the fact that all these technologies are dry and easy to operate (x-ray, Sandjet and Color Sorter) makes it convenient for shredder operators producing upwards of 5,000 tons of Zorba per month.

Currently under contract, and coming soon to Upstate is an \$8 million dollar ASR insulated wire recovery line. “I've been throwing away about 40,000 pounds of insulated wire every day for 11 years. In the big picture when you are buying two to three thousand tons a day, 40,000 pounds is not a lot. It's a heavy investment to make it work on site, but with the newer technology that senses the plastic from the copper we are going to make it work,” said Weitsman. “Our next goal is to recover glass and plastic as soon as we can find the technology that does it efficiently.”



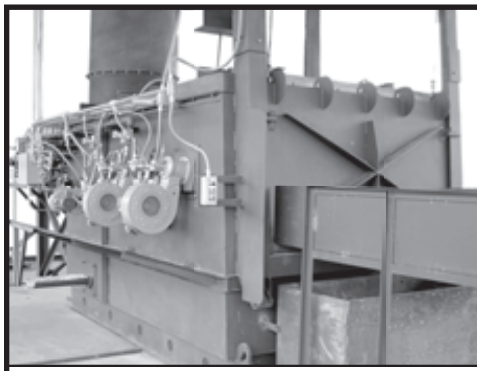
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METALS

Steel imports: First monthly increase in 2009

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 985,000 net tons (NT) of steel in July 2009, including 884,000 NT of finished steel (up 14 percent and 9 percent, respectively, vs. June final data). Total and finished steel imports on an annualized basis are down 48 percent and 41 percent, respectively. Annualized total imports of steel in 2009 would be 16.5 million NT. Finished steel import market share was an estimated 17 percent in July and year-to-date (YTD) through seven months is an estimated 25 percent.

Key finished steel products with increases in July 2009 compared to June include plates-in-coils (up 63 percent), reinforcing bars (up 55 percent), stan-

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	JUL 2009	JUN 2009	JUL 2008	2008 Annual	% Change 2009 Annual vs. 2008
CHINA	29	44	355	4,821	-56.4%
SOUTH KOREA	74	40	256	2,305	-36.9%
JAPAN	87	59	151	1,614	-31.4%
INDIA	50	33	80	1,102	-33.3%
TURKEY	32	2	37	827	-26.3%
GERMANY	24	33	106	1,122	-51.1%
TAIWAN	25	12	48	662	-34.2%
BRAZIL	8	13	34	436	-14.7%
All Others	554	575	1,176	13,067	-39.1%
TOTAL	884	811	2,244	25,956	-40.9%

dard pipe (up 36 percent) and hot dipped galvanized sheet and strip (up 21 percent).

In July, the largest volume of finished imports from offshore was from

Japan (87,000 NT, up 48 percent). Other major offshore suppliers in July were South Korea (74,000 NT, up 86 percent) and India (50,000 NT, up 51 percent).

Newell Recycling opens facility in Savannah

Newell Recycling held a "grand opening" celebration of its new state-of-the-art metal and recycling facility in Savannah, Georgia.

"We are very excited to be celebrating the opening of our new state-of-the-art metal recycling facility in Savannah, which is now our largest facility," said Bobby Triesch, vice president and director of ferrous operations.

A groundbreaking ceremony at the 40-acre Savannah site was in May of 2008. Newell Recycling made an initial investment of \$20 million at the Savannah location and asked for no tax abatements.

To maintain its tradition of being environmentally conscious, the company committed to preserving many specimen trees and planting almost 100 new trees on the property, which is located on a newly-built 1.5-mile-long access road off Dean Forest Road.

In addition to automobiles, the shredder processes appliances and demolition scrap. The technology allows Newell Recycling to separate the steel and non-ferrous metals into a valuable, furnace-ready raw material for steel mills, foundries and smelters. The metal produced by the shredder can be converted into new metals more easily and cost-effectively than mining the earth, while saving precious natural resources.



Employees of Savannah's Newell Recycling facility line up in front of recycled pieces created by Newell's 6,000 h.p. shredder, capable of grinding the equivalent of 170 cars per hour into fist-sized pieces. The Savannah plant celebrated its grand opening in August.

More coverage of METAL INDUSTRY news, Focus Section, Page B1



Scrap Metals
MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$185.00	\$190.00	\$195.00	\$205.00	\$305.00
#1 Bundles	per gross ton	185.00	189.00	189.00	200.00	285.50
Plate and Structural	per gross ton	245.00	192.00	216.00	235.00	292.50
#1 & 2 Mixed Steel	per gross ton	245.00	190.00	224.00	225.00	274.00
Shredder Bundles (tin)	per gross ton	200.00	189.00	187.00	169.00	213.00
Crushed Auto Bodies	per gross ton	195.00	187.00	189.00	169.00	215.00
Steel Turnings	per pound	70.00	72.00	84.00	90.00	150.00
#1 Copper	per pound	2.50	2.29	2.63	2.65	2.65
#2 Copper	per pound	2.39	2.14	2.55	2.58	2.54
Aluminum Cans	per pound	.48	.49	.52	.60	.64
Auto Radiators	per pound	1.58	1.507	1.50	1.55	1.65
Aluminum Core Radiators	per pound	.49	.48	.53	.50	.50
Heater Cores	per pound	1.20	1.27	1.35	1.39	1.50
Stainless Steel	per pound	.71	.69	.78	.77	.82

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

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Steel shipments up

The American Iron and Steel Institute (AISI) reported that for the month of June 2009, United Steel steel mills shipped 4,797,000 net tons, a 12.1 percent increase from the 4,282,000 net tons shipped in the previous month, May 2009 and a 47.5 percent decrease from the 9,136,000 net tons shipped in June 2008.

A month-to-month comparison of shipments shows the following changes: hot dipped galvanized sheet and strip, up 27.0 percent; hot rolled sheet, up 23 percent; and cold rolled sheet, up 15 percent.

METALS

Steel Dynamics updates third quarter earnings guidance

Steel Dynamics, Inc. updated its third quarter 2009 earnings outlook. Steel Dynamics now anticipates third-quarter earnings to be within a range of \$0.20 to \$0.25 per diluted share, somewhat higher than initial guidance of \$0.10 to \$0.20 provided in July. The estimate is based on anticipated fully diluted shares of 235 million.

"Since we announced our preliminary earnings views, we have seen continued strength in orders for flat-rolled steel and stronger volumes in metal recycling," said Keith Busse, Chairman and CEO. "Earlier in the quarter, it was uncertain as to whether the strength in flat-rolled order entry could be maintained; encouragingly, orders have remained strong. Both the Flat Roll Division and The Techs have continued to experience strong order entry and are achieving excellent operating results. The Butler mill broke previous hot-band production records in August, producing at an annualized rate of 3 million tons, benefiting from mill modifications that were completed in early July. The order book continues to be solid, with bookings through October for value-added flat-rolled products.

"OmniSource is benefiting from increased demand for and increased flows of recycled ferrous scrap as domestic steel producers become more active buyers. As we indicated in July, we expect OmniSource to be profitable for the year as a result of significant improvements in processing volume and better margins due to higher facility utilization, better cost control, and more favorable pricing.

"The outlook for the fourth quarter remains uncertain, as the economy at this point appears to be fragile in its rather slow recovery mode. The most difficult part of our business remains our long-products steel divisions and our fabrication operations whose recovery awaits stronger construction activity. We have not yet seen signs of improvement in non-residential building or gains from government stimulus. Regarding the outlook for flat-roll steel, we believe it will still take a few months to determine if credit markets will continue to improve, allowing consumers to be more inclined to make major purchases, such as demonstrated in the Cash for Clunkers program. If on the other hand we begin to see steel and finished-product inventories building, flat-roll utilization could slow later in the year," Busse said.

My kids love going online and they keep track of their passwords by writing them on sticky notes. I noticed their Disney password was MickeyMinnieGoofy-Pluto, and so I asked why it was so long.

"Because," my son explained, "they say it has to have at least four characters."

RUBBER

Magnum completes acquisition of large tire landfill in Colorado

Magnum D'Or Resources, Inc. (MDOR), a rubber recycling solutions company, announced that the Hudson, Colorado tire landfill is now 100 percent owned by MDOR and will be operated by Magnum Recycling USA. The closing was held in August and Magnum took ownership of all assets associated with the facility.

Magnum's President and CEO Joseph Glusic stated, "This is a great day for Magnum and the State of Colorado. We plan on making this site a state of the art facility that should be a model for the rest of the country, if not



the world, to demonstrate the ability to recycle waste products into useful and viable products that actually

enhance people's lives. I am extremely excited about this acquisition which now guarantees the raw supply needs

for our company for the foreseeable future."

Magnum's new Hudson, Colorado facility is approximately 50 miles northeast of Denver, Colorado. The facility consists of 120 high grade commercially zoned land, buildings, equipment, and inventory in excess of 30,000,000+ tires.

The facility is one of the largest tire landfills in the world and is situated close to major infrastructure and rail. Its central location is extremely well situated to accept and supply all of Magnum's current and future facility operations.

TIA announces new board of directors

The Tire Industry Association (TIA) announced the winners of the recent board of directors elections. There were 11 seats open, including 10 seats with 3-year terms and one seat with a 1-year term. Elected to serve three-year terms were:

- Russell Belcher, QMI/Ever-Wear, Lakeland, Florida.
- Dean Bray, Jr., Bray's Recapping Service, Inc., Mt. Airy, North Carolina.
- Eddie Bursleson, Central Marketing, Inc., Colonial Heights, Virginia.

•Dick Gust, Liberty/Lakin National Tire Recycling, Chicago, Illinois.

•Keith Jarman, AME International, Brooksville, Florida.

•Jim Melvin, Tire Pros of R.I., Inc., North Kingstown, Rhode Island.

•Glen Nicholson, TBC Retail, Juno Beach, Florida.

•Jim Pangle, Fountain Tire, Edmonton, Alberta, Canada.

•Freda Pratt-Boyer, Purcell Tire & Rubber Co., Potosi, Missouri.

•Mike Wolfe, Southeastern Wholesale Tire, Raleigh, North Carolina.

Additionally, Roy Bromfield of Q Tires, Inc., of Greenville, South Carolina was placed into the one-year vacancy that was created by the election of Larry Brandt of MSB Tires, LLC, of Lakeville, Minnesota to the position of secretary. The new board will take office on November 2, 2009.

The Andersen Company recycles old rubber mats

Florida Tire Recycling Inc. (FTR) has entered into a partnership with The Andersen Company, whereby FTR will accept used flooring mats from Andersen and its clients and recycle the discarded material producing a rubber powder that will be used in the production of new rubber mats and other products. Until today, worn rubber mats were thrown away and disposed of in landfills with no recycling possibilities. This highly customized, closed-loop program designed by FTR is the first of its kind to be implemented in the rubber mat industry.

This partnership will allow Andersen to offer customers a take-back program where old mats can be collected and used in the creation of new mats and other rubber products. FTR's grinding technologies have the ability to customize the size and type of rubber powder manufactured, giving Andersen the opportunity to incorporate a broad range of rubber powders into additional applications without large scale investments.

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With a 2006 LaBounty shear, 7,821 hours. Shear opening 32", Shear depth 36", Good working condition, 60 months financing available. \$128,000



ACKERMAN H10 W/45" SQUARE "D" MAGNET

A great price on a crane with a good working magnet. Good mechanical condition. 2,700 hours on new engine, good lower half with no leaks. \$55,000



2003 FUCHS MHL340

With 5-tine rotating grapple. 8,426 hours, solid tires, 13KW generator. \$159,000



1970'S AL-JON MODEL 20 CAR CRUSHER

Looking for a good "cheap" step crusher. This one runs and works well. Immediately available, just add paint. \$21,500



2004 KOMATSU PC400LC-7 W/SHEAR

4,099 hours, 36" track pads, 75% undercarriage remaining, jaw opening 38", jaw depth 38", cab guard and pump. Summation for increased cycle times, 110,000 machine. \$239,000



2003 MAC CAR CRUSHER

Only 1,500 hours, Cummins engine, remote. This one is in "like new condition", well-maintained. Customer getting out of the business. \$95,000

WASTE

Republic Services promotes organ donation with trucks



When Marc Bacon, general manager, Republic Services/GDS of North Carolina, heard about a statewide campaign to promote organ donor awareness, he knew he wanted to be a part of it and offered support by using company trucks as moving billboards.

The program, initiated by the Rotary Club of Clemmons, North Carolina, recently won the 2009 Nicholas Miller Award for Excellence in Donor Family Support. This award, presented by the Musculoskeletal

Transplant Foundation, honors those individuals or organizations who exhibit a commitment to donor families, or donor families who have been instrumental, through their loss, in increasing donor awareness.

The Rotary Club of Clemmons, North Carolina created the campaign to promote organ donor awareness and participation by placing compelling messages on the sides of tractor trailers. Their goal was to increase designations on driver's licenses and online registries.

"Our trucks are in the communities we serve on a daily basis and are highly visible and the signage is getting great exposure," said Mark. "We are proud to be part of this important project. It has enabled us to give back to the communities where we operate – truly a win-win."

The moving billboards feature images of organ recipients and donor families that not only increases awareness, but provide an opportunity for the organ recipients to say "thank you" for their second chance at life.

Casella Waste Systems' first fiscal quarterly results

Casella Waste Systems, Inc. reported financial results for the first quarter of its 2010 fiscal year.

Highlights include:

- Free cash flow for the quarter was \$5.1 million, up \$12.7 million from the same quarter last year;
- Adjusted EBITDA for the quarter was \$31.4 million; and
- Solid waste operations continue to produce strong cash flows through the economic slowdown.

For the quarter ended July 31, 2009, the Company reported revenues of \$135.9 million, down \$22.0 million or 14.0 percent from the same quarter last year. Approximately 63 percent of the decline was due to a drop in processing and recycling revenues, down \$13.8 million from the same quarter last year primarily as the result of lower commodity prices.

Solid waste revenues were down \$14.0 million or 11.9 percent over the same quarter last year with

price up 1.8 percent, fuel and oil recovery fees down 3.2 percent, volume down 9.0 percent, and commodity price and volume down 1.8 percent. Solid waste volume was down 6.3 percent excluding revenue losses due to the planned end-of-life decline of landfill volumes at the Pine Tree landfill in Hampden, Maine; the planned closure of the Colebrook, New Hampshire landfill in early August 2008; and the idling of a C&D processing facility in October 2008. FCR revenues were down \$9.0 million or 28.8 percent over the same quarter last year with price down 24.3 percent and volume down 4.5 percent.

The Company's net loss applicable to common shareholders was (\$2.8) million, or (\$0.11) per common share in the quarter, compared to net income of \$2.2 million, or \$0.08 per share for the same quarter last year.

A man and a little boy entered a barbershop together. After the man's haircut was done, he placed the boy in the chair.

"I'm going to buy a green tie to wear for the parade," he said. "I'll be back in a few minutes."

When the boy's haircut was completed and the man still hadn't

returned, the barber said, "Looks like your daddy's forgotten all about you."

"That wasn't my daddy," said the boy. "He just walked up, took me by the hand and said, 'Come on, son, we're gonna get a free haircut!'"

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WASTE

Coalition files lawsuit seeking to overturn cap on Solano County trash imports

A coalition of more than twenty waste hauling and recycling companies filed a lawsuit in federal court seeking to declare invalid a Solano County, California, ballot initiative believed to be unconstitutional by coalition members and Solano County leaders.

“More than twenty years ago Solano County leaders recognized that this ordinance restricting movement of waste across county lines is illegal under federal law, and the coalition is seeking to secure a court ruling to put this issue to rest,” said Ron Mittelstaedt, chief executive officer and chairman of Waste Connections, Inc. “Measure E threatens the future of safe, efficient and environmentally sound management of regional municipal solid waste.” Mittelstaedt concluded.

The coalition’s complaint, filed in the United States District Court for the Eastern District of California in Sacramento, challenges as unconstitutional

the 1984 measure that imposed an annual cap of 95,000 tons – a small fraction of current waste volumes – on the amount of solid waste that may enter Solano County from other jurisdictions for landfill disposal. The initiative, known as “Measure E,” was approved by Solano County voters nearly 25 years ago in the November 6, 1984 election.

Solano County has never enforced Measure E, and issued a memorandum concluding that the 1984 initiative is unconstitutional under United States Supreme Court precedent. Measure E discriminates against out-of-county waste, in violation of the United States Constitution’s protection of free movement of interstate commerce. Measure E does not impose limits on the disposal of in-county waste at Solano County landfills. The Legislative Counsel of California reached the same conclusion, writing in a 1992 Opinion that “Measure E, adopted by the voters of Solano County,

violates the Commerce Clause of the United States Constitution.”

The coalition points in particular to the potential impacts of Measure E on the Potrero Hills Landfill, which is vital to satisfying the Bay Area’s solid waste disposal needs. If Measure E is enforced, communities across Northern California will pay much higher prices for waste disposal as they search for alternative sites across California and in neighboring states, according to the coalition’s Complaint.

Measure E also undercuts a federal court order that the United States Department of Justice and California Attorney General Jerry Brown obtained earlier this year directing that the Potrero Hills Landfill be sold to maintain competition in the solid waste industry in Northern California.

The coalition is filing suit in Federal court to ratify the County’s longstanding belief in the unconstitutionality of Measure E in response to special interest groups and local activists seeking to compel enforcement of Measure E in order to drastically limit the Landfill’s capacity.

The coalition members bringing suit represent much of the waste hauling and recycling industry in Northern California, including Potrero Hills Landfill, BLT Enterprises of Sacramento, Brentwood Disposal Service, Concord Disposal Service, Contra Costa Waste Service, Discovery Bay Disposal, El Dorado Disposal Service, Novato Disposal Service, Oakley Disposal Service, Pacific Coast Disposal Corporation, Pittsburg Disposal and Debris Box Service, Redwood Empire Disposal, Rio Vista Sanitation Service, Rohnert Park Disposal, Santa Rosa Recycling and Collection, Sunrise Garbage Service, Timber Cove Recycling, Waste Connections, West Sonoma County Disposal Service, West Sonoma County Transfer and Windsor Refuse and Recycling.

The application does not propose any change to the landfill’s currently approved acceptance volumes of 4,600 tons per day average and 5,000 tons per day maximum. Based on the averages, expansion will provide 10 years of additional disposal capacity.

Pennsylvania DEP approves first phase of landfill expansion

The Pennsylvania Department of Environmental Protection has approved the environmental assessment portion of a permit application by Waste Management Inc. to expand Lake View Landfill, a municipal waste landfill in Summit Township, Erie County.

The environmental assessment, commonly referred to as the benefits-harms analysis, is the first step in DEP’s two-step landfill permit application evaluation process.

“The company has demonstrated that the benefits of the project outweigh the known and potential environmental harms,” said DEP regional director Kelly Burch. “This is the standard that landfill applicants have to meet under Pennsylvania environmental regulations to successfully close out the first phase of the permit review before DEP moves to the second phase, the technical review, which examines the design details of the application.”

Waste Management Inc. proposes to increase the existing disposal area by approximately 90 acres, expanding the landfill to the south of the existing disposal area and adding approximately 18 million cubic yards of space to the landfill.

The application does not propose any change to the landfill’s currently approved acceptance volumes of 4,600 tons per day average and 5,000 tons per day maximum. Based on the averages, expansion will provide 10 years of additional disposal capacity.

Veolia Environmental receives Environmental Stewardship Award

Veolia ES Technical Solutions, L.L.C., the hazardous waste subsidiary of Veolia Environmental Services North America, announced that its Flanders, New Jersey, facility has received an Environmental Stewardship Award from the New Jersey Department of Environmental Protection (DEP).

Following an inspection by the New Jersey DEP, the Flanders facility was formally recognized for its voluntary and proactive measures taken in an effort to improve the environment.

According to the New Jersey DEP, the goal of the Environmental Stewardship Initiative is to encourage regulated entities to improve their environmental performance beyond the minimum requirements of existing rules and regulations.

The Veolia ES Flanders facility met these requirements with their commitment to waste reduction, use of renewable natural resources and participation in environmental organizations.

Veolia ES Technical Solutions exceeded in the following categories: environmental policy, environmental

management system, vendor/supply chain requirements, mentoring to other businesses and environmental enhancement projects.

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AUTO

Thermoelectric waste heat recovery tested

Amerigon Incorporated announced that its BSST subsidiary will install and test thermoelectric waste heat recovery generators in BMW Group and Ford vehicles in the newest phase of a United States Department of Energy (DOE) funded program studying the use of thermoelectric systems to convert waste heat from automobile engine exhaust into electrical power. The program, which is being conducted by a team led by BSST, was created to improve automobile fuel economy.

DOE will contribute approximately \$1.1 million in funding and BSST will contribute an additional \$370,000 for

this fifth phase, which has a targeted completion date of March 31, 2010.

The first phase of the DOE program was launched in 2005 and analyzed the technical and commercial viability of the system concept. In phase 2, the team created a conceptual design of the system. In phase 3, Ford Motor Company joined the program and the team added more detail to the design by building and testing the subsystems on a bench using hot gas. As phase 4 nears completion, the team is integrating the complete thermoelectric system into a BMW inline six cylinder engine.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Cash for clunkers: Good or bad for you?

Recyclers have been talking about Cash for Clunkers, and whether it was good or bad for our industry. I won't opine much, other than to say the answer probably depends upon how prepared you were to take advantage of the opportunities the initiative presented.

Ever noticed that some folks seem to do well no matter what happens? A fire in their warehouse? Not a problem. They're prepared with backup systems. Insurance buys a new building, and they keep growing. Big hail storm destroys most of the inventory in the yard? This one happened to me. I was the only recycler in the area to get help. I got \$500,000 in SBA disaster relief because I had adequate inventory records and valuation methods in accordance with GAAP.

Everyone gets some good and bad luck. Some do better at enduring the bad and leveraging the good. Within days, we sent postcards to everyone in the zip codes that had hail and sold thousands of pieces of glass. Mostly 100 percent gross margin stuff we wouldn't have sold otherwise.

Many recyclers only change when events force them to. By then, it's often too late to make the most of opportunities that appear.

What have you done recently to anticipate what might change in the next few years? What have you done to change your business in a meaningful way or made specific plans to grow? That mailing you did a few months ago was great, but it isn't the answer, it's a temporary tactic.

You need to anticipate how business is changing. How are your customers' needs changing? What steps have you taken to plan? That talk with your operations manager about improving quality

doesn't qualify. Again, it was a response triggered by too many returns. It's good, but it's not strategic.

Some recyclers are thriving because they are thinking on a strategic level. They make time to meet, think, share, and create written strategic plans and measurable goals. They appear luckier, but they're really better prepared. They are the ones who invest in a better computer system. Many of you have been considering that for years, but haven't made a move. You don't know what you don't know.

Many of the best prepared recyclers are also in study groups, where they benchmark their operations, exchange information about what works, and discuss current issues, problems, solutions, and plan for the future. My good friend Jim Counts facilitates such groups, and so do I. I don't know how Jim's meetings work. I haven't attended one, but I hear only good things.

My groups focus on business metrics, financials, and strategic planning. We review the key initiatives of each participant. We look at the strengths, weaknesses, opportunities and threats of each initiative (SWOT analysis). Participants come away with an actionable list of ways to improve their operation and several vetted new initiatives focused on growing sales or reducing expenses. We have meetings planned in the coming months, and I know Jim also has similar opportunities to move a business to the strategic level.

If you can't write down exactly what you are planning to do to improve your bottom line, then you haven't done the strategic planning needed to really grow. These groups work. You should make certain you are part of one.

Benefits of automotive reuse and recycling study disclosed

The world's airliners could fly nearly 100 million miles with the energy saved each year by reusing steel fenders instead of manufacturing them new, says a new study prepared for the United Recyclers Group (URG) by the University of Colorado (CU). The study quantifies the benefits of automotive reuse and recycling by the nation's automotive recycling industry. The study specifically looked at reusing some common parts such as fenders and aluminum wheels, along with the reprocessing of motor oil extracted from 'end-of-life' (EOL) vehicles.

According to Michelle Alexander, URG executive director, "The CU study estimates that nearly 11 million vehicles are taken off the road in America each year when they reach their so called 'End of Life' (EOL). This process of attrition is caused by accidents and also occurs as vehicles age. There are tremendous quantifiable environmental and financial benefits for consumers that are provided by the green American automobile recycling industry as these vehicles are processed both for the reuse of certain parts (known as 'green parts') and recycling of most of the remainder."

Alexander said that "Thanks to our auto recycling industry, the brakes are being tapped on climate change, energy consumption is being reduced, less material is being mined, refined and used, many forms of pollution are lowered and the carbon footprint for the whole auto industry is being reduced."

The study was launched when Alexander contacted Dr. Angela Bielefeldt, PE, an award-winning professor of Civil & Environmental Engineering at the University of Colorado, Boulder (CU). The study was completed by a team of senior environmental engineering students comprised of Patrick Gere (lead), Tyler Sale, and Madeline Tyson.

Audi reveals the electric e-tron

Audi presented the e-tron, a high-performance sports car with a purely electric drive system.

Four motors – two each at the front and rear axles – drive the wheels, making the concept car a true quattro. Producing 313 h.p. and 3,319.03 lb.-ft. of torque, the two-seater accelerates from 0 to 62.14 mph in 4.8 seconds, and from 37.28 - 74.56 mph in 4.1 seconds. The lithium-ion battery provides a useable energy content of 42.4 kilowatt hours to enable a range of approximately 248 kilometers, or 154 miles.

Audi has taken a new, and in some cases revolutionary, approach to many of the technical modules. A heat pump is used to efficiently warm up and heat the interior. The drive system, the power electronics and the battery are controlled by a thermal management system that is a component for achieving the car's range without compromising comfort.

John Fischl, president of Riteway Auto Parts, located in Phoenix, Arizona, and a URG manager said that "For a typical EOL vehicle, about 75 percent of the parts are salvaged for reuse, about 20 percent of the vehicle is recycled, and the remaining 5 percent is thrown away." What that means, he added, is that an "EOL vehicle is one of the greenest products on the planet. Through the reuse of 'green parts,' vehicles may partly live on for years and years, at great environmental benefit to Planet Earth and important financial benefit to the consumer driving a vehicle needing repair parts."

Some highlights of the study's major findings include the following:

- The recycling of steel fenders each year in the United States saves the mining of over 5 million tons of iron ore, nearly 3 million tons of coal, and over 250,000 tons of limestone as compared to the manufacture of an equivalent number of new steel fenders.

- The smelting of aluminum is very energy intensive, so it is no surprise that even more spectacular are the savings associated with the recycling of aluminum wheels. The study estimates that over 1.71 billion kilowatt hours of energy are saved annually when the aluminum needed to make enough wheel sets isn't mined, isn't smelted, and isn't manufactured. The energy savings from not having to manufacture aluminum wheels alone would be enough to power Chattanooga, Tennessee or Panama City, Florida for an entire year.

Events Calendar

October 19-20th

Aluminum Association 2009 Annual Meeting. Waterview Conference Center, Arlington, Virginia.
703-358-2967 • www.aluminum.org

October 27th-28th

NERC Fall Conference. Hotel Northhampton, Northhampton, Massachusetts.
802-254-3636 • www.nerc.org

October 27th-28th

CARE Entrepreneur Meeting. Atlanta Airport Marriott, Atlanta, Georgia.
706-428-2127 • www.carpetrecovery.org

October 27th-29th

Solar Power International 2009. Anaheim Convention Center, Anaheim, California. 202-559-2032 • www.solarpowerinternational.com

November 5th-6th

4th Asphalt Shingle Recycling Forum by CMRA. Doubletree Hotel Chicago, Chicago, Illinois. www.shinglerecycling.org

November 5th-7th

4th China Plastics Recycling Exhibition & Conference (ChinaReplas2009). Hangzhou, China.

January 24th-27th, 2010

US Composting Council's 18th Annual Conference & Tradeshow. Wyndham Orlando Resort, Orlando, Florida.
631-737-4931 • compostingcouncil.org

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

AUTO

“Total loss” policies improve supply of salvage parts

Recently, there has been a dip in the actual cash value (ACV) of vehicles, following a drop in the prices of used vehicles due to the economic decline. The higher prices of raw materials have hiked repair costs, resulting in more “total loss” claims and eventually, a greater number of salvaged parts. Conversely, the use of salvaged parts will lower the cost of repair, which will result in reduced total loss vehicles, benefiting the insurance companies.

New analysis from Frost & Sullivan finds that the market earned revenues of \$3.2 billion in 2008.

“More insurance companies are advocating the use of salvage (recycled) parts, as they try to control collision repair costs, thereby driving unit shipment of salvage parts,” says Frost & Sullivan industry manager Avijit Ghosh. “If repair costs are not controlled, the insurance premiums will amplify.”

Further, salvage is a convenient way of getting rid of used vehicles. As the owners who donate their used cars get tax credits, there has been a rise in the availability of salvage parts and used-vehicle owners are increasingly turning to the salvage industry.

The lower market for retail-used vehicles and new vehicles has affected dealer demand for wholesale used vehicle inventory, reducing the prices of salvage parts. Moreover, the salvage industry participants have to stave off stiff competition from original equipment manufacturer (OEM) parts, especially in collision repair. This is because OEM parts are considered to have better fit, form, and function and provide enhanced safety, durability, and reliability.

Repair shops use a high percentage of OEM parts in crash repair because they get higher margins on them. They find it a riskless proposition to order OEM parts as the insurers pay a higher amount for them. This effectively eats into the sales of alternate parts (after-market and salvage parts).

“However, some insurance companies fully support and encourage repair shops’ usage of salvage parts for collision repair,” notes Ghosh. “The primary objective is to reduce the cost of repair practice and maximize the value of the salvage vehicles.”

Meanwhile, with more orders for late models, North American brands in developing countries have escalated the demand for salvage vehicles that are easily reconditioned to a reasonable state at an acceptable value, in order to maximize returns.

For a brochure which provides a brief synopsis of the research and a table of contents, view this article on www.AmericanRecycler.com.

ALTERNATIVE ENERGY

WM joins investors in new conversion technology

Waste Management, Inc. and Terrabon, L.L.C., announced an agreement by Waste Management to invest in Terrabon’s unique waste-to-fuel conversion technology.

Waste Management joins Valero Energy Corporation which also invested in Terrabon in April 2009 and recently increased its investment in Terrabon. This investment from Waste Management and Valero will be used by Terrabon to advance the scalability of their technology.

Waste Management will also assist Terrabon in securing organic waste streams, which Terrabon will use to produce high-octane gasoline using its MixAlco technology. MixAlco is an acid fermentation process that converts biomass into organic salts.

The resulting non-hazardous organic salts, or bio-crude, would be then shipped by truck, rail or pipeline to a Valero refinery or other centralized processing facility where it would be converted to a high-octane gasoline that can be blended directly into a refiner’s fuel pool, avoiding many of the blending and logistics challenges presented by ethanol. Terrabon recently successfully completed the production of gasoline from sorghum biomass at its advanced biofuels research facility in Bryan, Texas.

We Energies to build biomass plant in Rothschild, Wisconsin

We Energies announced the proposed construction of a \$250 million biomass-fueled power plant at Domtar Corporation’s Rothschild, Wisconsin paper mill site. Wood, waste wood and sawdust will be used to produce 50 megawatts of electricity and will also support Domtar’s sustainable papermaking operations. The project would be funded by We Energies.

The partnership between We Energies and Domtar will result in a highly efficient use of resources and will add another technology to We Energies’ renewable energy portfolio.

That portfolio includes the state’s largest wind development – the 145 megawatt Blue Sky Green Field Wind Energy Center in Fond du Lac County and the proposed 162 megawatt Glacier Hills Wind Park in Columbia County. Together, these three projects will be capable of delivering nearly 360 megawatts of renewable energy, enough to supply approximately 120,000 homes.

Under Wisconsin law, utilities statewide must use renewable energy to meet 10 percent of the electricity needs of retail customers by the year 2015.

The project is expected to create approximately 400 construction jobs and 150 permanent jobs in the surrounding community, including independent wood suppliers and haulers from northern and central Wisconsin who will secure waste wood for the project.

Wood is a substantial renewable resource that can be used as fuel for producing electricity while reducing greenhouse gas emissions. Local independent contractors secure the waste wood from area forests and transport it to the mill site. Studies indicate that area forests within a 75-mile radius of the Rothschild Mill can support this proposed power plant, and the project could provide a significant opportunity to further improve forest health.

Domtar Corporation is approximately 77 percent energy self-sufficient across its North American manufacturing footprint of 15 pulp and paper mills. The average Domtar pulp and paper facility draws approximately 84 percent of its thermal energy (energy required to make steam) from renewable fuels such as biomass and spent cooking liquor.

We Energies will file an application for a Certificate of Authority with the Public Service Commission of Wisconsin in early 2010, requesting approval for the biomass plant which is expected to be completed in the first half of 2013.

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BUSINESS BRIEFS

International Titanium adds two new board members

■ Lawrence D. Buhl III, chief executive officer of Lawrence Holdings Inc., and Graham P. Walker, vice president and general manager of Reading Alloys Inc., have been tapped to fill two vacancies on the board of directors for the International Titanium Association (ITA), Broomfield, Colorado.

Paul O. Jones of Reading Alloys is stepping down from the ITA board after six years of service, while Terry Perles of Stratcor Inc. is leaving after four years.

Walker, who has more than 30 years of experience in the metals industry, is also eager to expand titanium applications. He is a metallurgist with a Bachelor of Science degree from the University of Leeds, UK, and a masters of business administration degree from Baldwin Wallace College in Berea, Ohio.

Republic Services announces bond offering

■ Republic Services, Inc. has commenced a private offering of \$500 million of senior notes due 2019.

They intend to use the net proceeds of the offering to tender for certain outstanding senior notes maturing in 2010 and 2011, subject to a maximum payment amount of \$250 million (plus accrued interest), to reduce amounts outstanding under their revolving credit facility and to remit estimated tax payments related to the divestiture of assets in connection with their 2008 merger with Allied Waste Industries, with the remainder to be used for general corporate purposes.

The notes will be general senior unsecured obligations and will be guaranteed by each of their subsidiaries that also guarantee their revolving credit facilities. These guarantees will be general senior unsecured obligations of the subsidiary guarantors.

GreenMan's subsidiary receives product award

■ GreenMan Technologies, Inc. announced that its subsidiary, National Playground Compliance Group, was the first recipient of the ADA and Green Innovative Product Award given by the Great Plains ADA Center at this summer's National ADA symposium in Kansas City, Missouri.

Notes redemption by Gerdau Ameristeel ends

■ Gerdau Ameristeel Corporation announced that it has completed the redemption of its \$405 million 10 3/8 percent senior notes due 2011 at a redemption price in the amount of \$417,626,662, representing 101.792 percent of the outstanding principal amount plus accrued interest to the redemption date.

Bollman named general manager of Terex ASV

■ Terex Construction Americas has announced that Kurt Bollman has been named general manager of Terex ASV, the company's compact track loader manufacturing facility. Bollman was previously general manager of Terex ASV's Loegering undercarriage design and manufacturing plant in Casselton, North Dakota.

Bollman replaces Mark Glasnapp, former president of Terex ASV, who is retiring.

A certified public accountant, Bollman has been with the Terex subsidiary manufacturing location, Loegering, for eight years. The last four of those years were in senior leadership roles. Previously, Bollman held such positions as controller, management information system director and chief financial officer for industries as diverse as the soft drink industry, long-haul trucking and agricultural seed. He has also owned his own public accounting firm. Bollman will retain responsibility for the Loegering facility as part of his new, expanded position.

MONTHLY CROSSWORD

BY Myles Mellor

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ACROSS

1. The production of this is the leading cause of industrial air pollution in the United States
7. Recycling one aluminum ___ saves enough energy to run a 100-watt bulb for 20 hours
10. Trademark name of foam rubber sports equipment
11. Met showstopper
12. Inside, prefix
13. ___ing, this consumes up to 34 percent of electricity in the United States
17. Fibrous material used to make paper
18. Road, for short
19. Green panels?
20. Receipt word
22. Not applicable, abbr.
23. Flying saucer
25. Yale student
27. Intense desires
29. Only ok (2 words)
30. Exercise class
32. Single, before a vowel
33. They affect the ozone layer, abbr.
35. N.American snake
38. Consider, with on
39. Used paint, used oil, pool chemicals, for example
42. Fertilizer matter
44. Have a high opinion of
46. Greek goddess of the dawn
47. ___hibited materials, materials that are not allowed in the landfill according to the operational permit specific to each landfill
48. Trademark symbol
50. This type of paper fiber is the most efficient source of fiber for the manufacturing of new paper products
52. Army training group
54. This, in Paris
55. ___grind, ground up recyclable plastics
57. Aka No. 4 Plastic, abbr.
59. Instance of being comical
61. The end product of a compaction process
63. Speak to rudely
64. ___composting, the process whereby worms feed on slowly decomposing materials
65. ___reduction, an action to reduce waste at the point of generation
66. Gold symbol

DOWN

1. ___ from waste, a recognized alternative process to reduction of recyclable materials which are not currently economical

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2. Grant, temporarily
3. Hospital room, for short
4. Energy-saving alternatives to incandescent light bulbs
5. Kumquat, for example
6. Song speed
7. ___ oil, fossil fuel, also known as petroleum
8. Be ill
9. Food blotter
11. ___ary: bee home
14. Charged bit
15. This material can be recycled forever
16. Laughter sound
21. Money received as wages
24. Green shout?
26. Musical scale note
28. Golden Gate Bridge city, abbr.
30. This piece of technological equipment has to be properly recycled to avoid putting poisonous metals into the earth
31. Extra wide shoe fitting
34. ___ the loop, the last and most important step in the recycling process
36. Recognize excellence
37. Safari sight
38. Newhaven locale
40. Time period, for short
41. You and me
42. Television tube
43. Pea place
45. Complete
47. Clear plastic used in some household cleaning product bottles
49. Actress, West
51. Engine purr
52. Recycle
53. ___gated cardboard, cardboard containing a ridged lining
54. Dapper
55. Clerical abbreviation
56. One of the Ewings on "Dallas"
58. Debate position
60. Single lady title
61. British, abbr.
62. Lithium symbol
63. Med. expert

Executive appointments made at Tube City

■ Joseph Curtin, president and CEO of Tube City IMS Corporation, announced that Raymond Kalouche has been named chief operating officer of the Company. He will continue as president and COO of the Company's Mill Services Group. Kalouche will report directly to Curtin.

Curtin also announced that J. David Aronson has been named chief operating officer of the Raw Materials and Optimization Group. He will continue as president of that group. Aronson will continue to report directly to Curtin.

Kalouche joined the Company's IMS Group in 1989 and held various management positions in technical services, surface conditioning, operations and marketing until he was promoted to president and chief executive officer in 2004. After the merger with Tube City in December 2004, Kalouche was named president and COO of the Mill Services Group, Tube City IMS. He is based at the company's Horsham, Pennsylvania office.

Aronson has worked in the scrap industry since 1989 and joined Tube City in 1991 as an account executive. In 1993, he was promoted to Midwest Region district manager, a position he held until he was named senior vice president in 1996 and subsequently promoted to executive vice president in 2004. He was named president of the raw materials and optimization group in 2008. He is based at the Company's Gary, Indiana office.

"Mr. Quinn, I have reviewed this case very carefully," the divorce court judge said, "and I've decided to give your wife \$775 every week."

"That's very fair, your honor," the husband said. "And every now and then I'll try to send her a few bucks myself."

BUSINESS BRIEFS

WCA Waste acquires Houston hauling operation

■ WCA Waste Corporation has completed a tuck-in acquisition consisting of seven roll-off trucks in Houston, Texas.

All of the waste collected will be internalized into one of the four WCA-owned Houston area landfills.

Morbark signs new dealer agreement in Florida

■ Morbark, Inc. announced that Nortrax Equipment, southeast region, has recently joined its family of recycling and forestry dealers. The partnership further expands the Morbark dealer network benefitting the many Morbark customers located in the southeastern region of the country.

Durfor named new executive director of NRRRA

■ The Northeast Resource Recovery Association has made permanent the appointment of Michael W. Durfor of Sunapee, New Hampshire, as its executive director.

Durfor has been working on an interim basis with the Association since last December. During that time he has guided the staff at NRRRA through a myriad of initiatives including increased support for member services outreach and technical support programs, the new "Full of Scrap" bulletin, updated market pricing, and single-stream feasibility analysis.

He has increased the visibility of the NRRRA School Recycling Club programs, and has been responsible for increased cooperation among associations.

Exodus Machines chooses new management team

■ Exodus Machines announced the appointment of its senior management team. The new team, which consists of Bruce Bacon, president; Greg Bacon, vice president of sales and marketing; and Jim Campbell, vice president of manufacturing, will guide the company as it prepares to introduce its first models to the recycling industry.

Bruce Bacon, Exodus' president, is co-founder and former general manager of Genesis Attachments, also of Superior, Wisconsin.

Greg Bacon, the company's vice president of sales and marketing, is also a veteran of Genesis, where he held the positions of regional sales manager and marketing manager.

Synalloy acquires carbon pipe fabricator in Arkansas

■ Synalloy Corporation has acquired the business of Ram-Fab, Inc., a private company located in Crossett, Arkansas. The company has sales of approximately \$18 million and is profitable. Its primary business is fabrication of carbon pipe, which is a product line that Synalloy's board of directors and management believe is strategically important for future growth.

The business will complement the stainless steel pipe fabrication of the Company's Bristol Metals operation. The acquisition should also generate new opportunities in stainless steel pipe fabrication since many projects require that bidders quote both carbon and stainless steel fabrication.

The management team of Ram-Fab will continue to manage the business and report to the president of Bristol Metals. The acquisition is for cash and will be paid from currently available funds.

Vega Promotional Systems opens office in Georgia

■ Vega Promotional Systems, Inc. is opening an office in Georgia as part of the Company's plan to manufacture energy efficient pellet fuel from organic waste bi-products in the state.

Located in Tifton, Georgia, the 20,000 square foot facility will be a part of the Company's alternative/green energy manufacturing facility that, when completed, will capitalize on the abundance of biomass in Georgia's Bioenergy Corridor and will have the capacity to produce several hundred thousand metric tons of biomass fuel pellets annually.

The State of Georgia ranks third in the nation as a potential source of renewable energy. The amount of privately owned forests in Georgia, more than any other state in the country, is the reason for the state's ranking.

Vega is seeking financial assistance from the state to build its manufacturing plant. When complete, the facility will create nearly 200 direct or indirect green jobs and address state energy priorities to adopt emerging renewable energy and energy efficiency technologies.

Smurfit-Stone appoints Griffith as VP and treasurer

■ Smurfit-Stone Container Corporation announced the appointment of Timothy T. Griffith as vice president and treasurer.

Prior to joining Smurfit-Stone, Griffith served as vice president and treasurer of Cooper-Standard Automotive in Novi, Michigan, and previously served in a variety of financial leadership roles for Lear Corporation, Citicorp Securities Inc., and Comerica Incorporated.

Griffith will be responsible for managing Smurfit-Stone's treasury function, including liquidity and cash management, capital raising and structure, investor relations, risk management, investment oversight and corporate credit processes.

Smurfit-Stone also announced the promotion of Brian Gardner to assistant treasurer.

Gardner is responsible for capital issuance and monitoring Smurfit-Stone's debt compliance, as well as weekly and monthly debt reporting obligations. He will also oversee Smurfit-Stone's cash investment and monitor all of the company's defined benefit and defined contribution plan investment managers.

Gardner joined Smurfit-Stone in 1998 as a treasury analyst and has since held roles of increasing responsibility, including senior treasury analyst, manager of financial operations and, most recently, director of corporate finance. His background includes both credit and treasury analyst positions for Commerce Bank, Magna Bank and Bunge Corporation.

Bobcat to consolidate operations in North Dakota

■ Bobcat Company is transferring all North American machinery production to its original manufacturing facility in Gwinner, North Dakota. This will result in discontinuing production at Bobcat's Bismarck, North Dakota, plant.

Currently, Bobcat mini excavators, the Toolcat utility work machine, the S70 skid-steer loader and mini track loaders are made in Bismarck, while all other Bobcat skid-steer loaders, compact track loaders and all-wheel steer loaders are manufactured in Gwinner.

With the consolidation, all machines – including the only mini excavators made in North America – will move to Gwinner, home of the first production three-wheeled loader (the precursor to the skid-steer loader) in 1958.

Over the next three months, 475 production positions will be phased out of Bismarck, but as many as 390 jobs will remain in North Dakota to accommodate the consolidation. Bismarck will retain 150 positions across product engineering, finance, accounts payable and aftermarket parts — areas unaffected by the move. The Bobcat Manufacturing support center will also remain in Bismarck.

EnergySolutions pays quarterly dividend

■ EnergySolutions, Inc.'s board of directors has declared a quarterly dividend of \$0.025 per share that was paid on September 11, 2009, to stockholders of record on September 4, 2009.

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Abanaki Corporation introduces its Oil Viper Tube Skimmer, which removes free-floating surface oils by means of an oil-attracting, continuous-looped tube. The tube skimmer delivers a virtually oil-free tube when it leaves the skimmer.

The Oil Viper stands out for its method of removing oil from the tube and for its compact size. Having a footprint 25 percent smaller than its competitors, it also features a unique wiper combination prefitted to the tube itself. The result is quicker oil removal at rates as high as 100 gallons per hour.

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ALLIED-GATOR'S NEW MT RAIL BREAKER TOOTH SEGMENTS

Allied-Gator's new, patent-pending MT Rail Breaker tooth segments bolt into the existing MT Cracker/Crusher Jaw Set in just minutes. Now, MT users have the ability to handle, position and process heavy rail at a rate never-before-seen with an excavator-mounted attachment.

The MT Cracker/Crusher Jaw Set in the Rail Breaker configuration effortlessly processes rail and cleanly removes any concrete or asphalt that may be bonded to the rail.

The MT Rail Breaker tooth segments will initially be offered for MT sizes MTR 50, 70 and 90.

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www.alliedgator.com



KOMAR PORTABLE SHREDDER CUTS JOB SITE DISPOSAL COSTS

Komar Industries has introduced a transportable shredder/compactor, the EM-PSC Auger. It shreds and compacts everything from pallets to white goods to dry wall to cement block.

The electro-mechanical unit is mounted on a roll-off machine bed. Its 7.4 cu. yd. hopper accepts almost any kind of construction debris.

A 40 h.p. electric motor drives an auger screw that shreds and compacts with 178,000 ft. lbs. of force, filling standard 40 and 50 cu. yd. roll-off containers with typical loads of 8 to 14 tons of easily unloadable waste material.

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4425 Marketing Place
Groveport, OH 43125
614-836-2366
www.komarindustries.com



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The LowLift hoist introduced by Refuse Parts, LLC, has a hinged tail that serves as a loading platform, allowing easier and closer alignment with the container.

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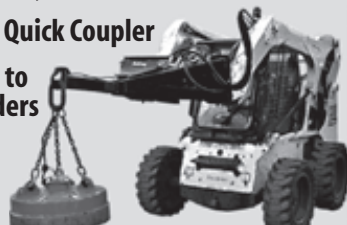
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- 2002 & 1998 MHL 331 REBUILT (rubber), 35' reach, hydraulic cab, gen-set and grapple.
- 2001 MHL340 REBUILT (rubber) 41' reach, hydraulic cab, gen-set and grapple.
- 1995 MHL350 REBUILT (rubber) 50' reach, hydraulic cab, gen-set and grapple.

LIEBHERR

- 2005 R934BEW (crawler), 50' reach, 4' cab riser, gen-set and rotating grapple.
- 2001 A934 REBUILT (rubber), 51' reach, hydraulic cab, gen-set and grapple.
- 2002 A904 REBUILT (rubber), 38' reach, hydraulic cab, gen-set and grapple.
- 2001 A924 REBUILT (rubber), 40' reach, hydraulic cab, gen-set and grapple.
- 2001 A316 (rubber), 30' reach, hydraulic cab, gen-set and grapple.
- 2000 R914 REBUILT (crawler), 38' reach, 4' cab riser, gen-set and grapple.
- 2000 A904 REBUILT (rubber), 35' reach, 4' cab riser, gen-set and grapple.
- 1998 A922 REBUILT (rubber), gen-set, grapple and magnet, no riser.

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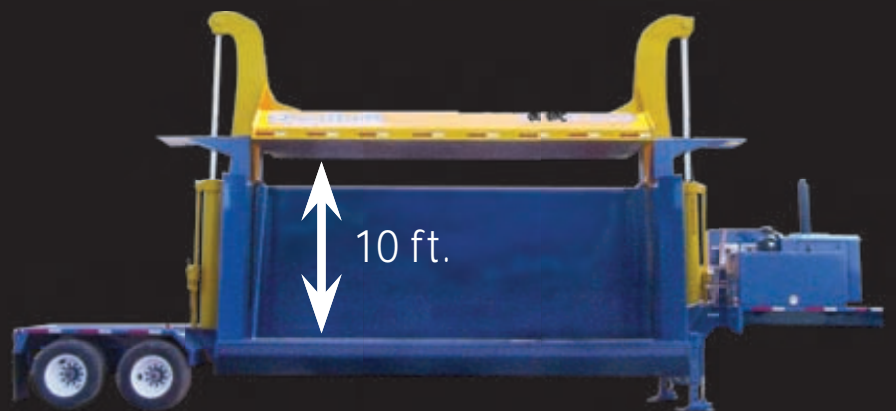


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Prices up in non-ferrous industries

by BRIAN R. HOOK

bhook@americanrecycler.com

It has been a rough year for non-ferrous scrap metal recyclers, but executives on the front lines and experts who track the industry both predict better times ahead.

"I feel that we are on a very slow upward trend and before any of us realizes it we'll all be singing 'Happy Days Are Here Again.' It's the nature of the cyclical beast," said Jeff Solomon, chief executive officer of Globe Metal Recycling Services Inc.

"Since so many producers shut down high-cost capacity in the face of low prices, there will be a shortage of all types of materials by the third quarter of this year."

Volumes at the scrap metal dealer headquartered in Montreal, Quebec, were down approximately 25 percent year-to-date in August, Solomon said. Prices, meanwhile, have recovered from the lows hit in the last quarter of 2008, but the prices of non-ferrous scrap metal are still around 25 to 40 percent off of their highs.

The market for non-ferrous scrap is hurting the bottom line at Sims Metal Management Ltd., the world's largest publicly-traded metals recycler, with operations in North America, the United King-

dom, Continental Europe, New Zealand and Asia.

"Prices are coming back a little, but volumes are way down," said Larry Snyder, executive vice president for non-ferrous metals, based at the Company's Chicago offices. He said that he expects "slow improvement" throughout this year and into next year.

The metals recycler reduced spending and headcount to mitigate the impact of the global recession. "With pricing and demand for scrap improving, and subject to recovery in scrap generation, we believe Sims Metal Management is poised for renewed growth, success and shareholder value creation in fiscal 2010," said Daniel Dienst, chief executive officer, in a statement following the release of its fiscal 2009 report.

"We have maintained a strong balance sheet through low gearing and we more than doubled cash flow from operations in the past fiscal year, providing us with the financial flexibility to further expand our unrivaled global footprint," he added.

Credit is still a problem for some metal recyclers, said Bob Garino, director of commodities at the Institute of Scrap Recycling Industries Inc. in Washington D.C. The trade association represents nearly 1,600 companies with more than 7,000 facilities.

"If you are in the Midwest, for example, it is not that you can't get scrap. Scrap is available," Garino said. "But you are going to have to make sure that you can pay for it right away. Credit issues are still affecting how scrap is moving to the consumers."

Prices in the non-ferrous market may also be ahead of fundamentals, Garino said. "There is probably a fairly good argument that we are going to see a push-back in commodities. I think the market is a little ahead of itself, based on fundamentals."

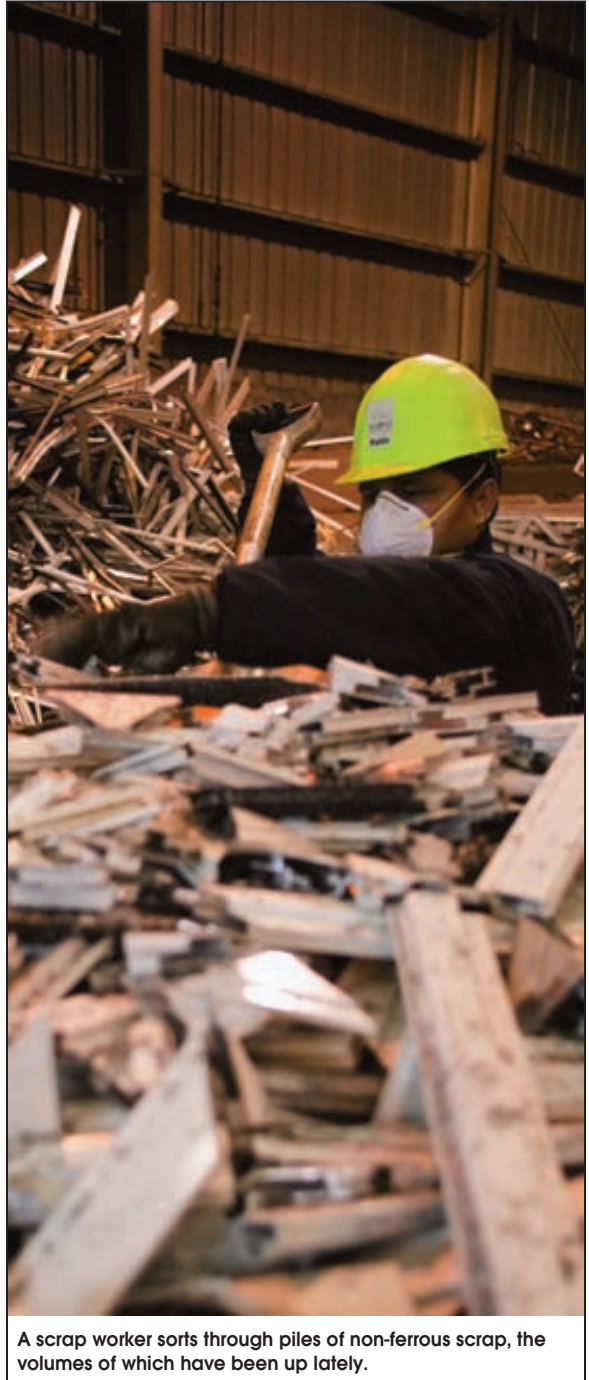
A lot of the influence on prices in the scrap metal markets follows what is going on in China. If there is less scrap being shipped to China, prices will drop. "But I don't see any of these metals testing the lows that we saw in the first quarter," Garino said.

Inventories, meanwhile, are at an all time low and scrap shipments are increasing. "We are coming off such a low base that the idea is that we will build from these numbers. Whatever slack is closed by lower Chinese buying and consumption will be mitigated by an increase in what we are seeing in developed nations," Garino said.

Aluminum inventories, for example, totaled 266,500 tons at the end of July, or 42.5 percent below inventories at the same time last year, according to the Metals Service Center Institute. The trade association, which represents the largest single group of metals purchasers in North America, reports aluminum stocks were equal to a 3-month supply.

"We are starting to see things begin to percolate, a sign of a restocking cycle that is characteristic of the first stages of recovery," said John Mothersole, a senior economist who tracks the non-ferrous markets at IHS Global Insight Inc. in Washington D.C.

"I'm not going to say that it is anywhere near good. But, I get the sense that the conditions are improving. They are not great, they are not good, but they are better."



A scrap worker sorts through piles of non-ferrous scrap, the volumes of which have been up lately.



A truckload of copper scrap is dumped for processing. Prices for non-ferrous metals like copper have rebounded nicely since their recent lows.

See NON-FERROUS, Page 6

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A Letter from the Editor

Dear readers,

Has anyone else felt the tension in the air of late? It seems, to me at least, that a general air of political unrest and unease has settled upon the people of the nation. No matter which section one turns to in the daily news, there's some sensational headline about something new we're supposed to fear.

The H1N1 virus is running rampant through the population, and words like pandemic and epidemic are being tossed around by global agencies. Prominent community organization groups have come under scrutiny from secret video investigations. Despite the government's assertion that the worst of the recession is over, unemployment percentages continue to be the highest in years. Health care and insurance as we know it are on the brink of extinction, and the government-crafted replacement is shrouded in mystery. Even the politicians pushing the bill can't say exactly how the darn thing works. And your home, if you haven't been foreclosed upon yet, is still probably worth exactly nil.

But if you ask me, there's an upside to all of this. It may have taken a lot, but all of the media fear-mongering has finally gotten people to shake off their apathy and take heed of what's going on in their nation. A new movement is stirring, and patriotism is suddenly back in vogue.

I don't care what your political ideologies are. I'm just glad that you have ideologies at all. Free and open debate about the issues we face has been, and will always be, the best policy. Of course, free and open debate naturally stems from transparency, which has been notably lacking in recent governmental decisions. Now, thanks to swelling public interest, that transparency is finally being shouted for and insisted upon.

Whatever your views may be on any of the aforementioned issues, voice them. Go to rallies and support your causes. Vote. If you're unhappy with the way things are run, the only way to change that is to cast your vote for a new batch of politicians.

There's no guarantee, of course, that the new batch will be any better than the old, but we can at least send the message to politicians that we will be holding them accountable for their decisions, and that they are still the employees of the American people.

Enjoy this October issue of American Recycler. As always, please feel free to write. Opinions, comments, compliments and complaints are all part of the great and open debate that we espouse here at AR.

Have a great month everyone.



Dave Fournier
Focus Section Editor
david@americanrecycler.com

PSC Metals hires new chief executive

Ronald J. Nock, former president and chief executive officer of Severstal North America Inc., has been named president and chief executive officer of PSC Metals, Inc. Nock succeeds Benjamin M. Blemker, who is retiring.



—Ronald J. Nock

Nock has spent his entire career in the steel industry, having joined Wheeling Pittsburgh Steel Corporation in 1975. From there, Nock was hired by Rouge Steel Company in 1982, where he began as a sales representative. Nock rose through the marketing ranks to become senior vice president, commercial and strategic planning in 2000.

When Russian-owned Severstal purchased Rouge Steel in 2004, Nock was appointed chief operating officer and then president and chief executive officer. Nock guided his team through the restructuring and turnaround of the company, including a massive modernization program designed to reduce cost and enhance product capability. Nock also led the team responsible for Severstal's three major acquisitions.

New steels help automakers meet fuel and emissions standards

To help automakers meet stringent fuel economy and greenhouse gas emission standards proposed by President Barack Obama, the United States Environmental Protection Agency (EPA), the Department of Transportation and AISI's Steel Market Development Institute (SMDI) announced that it is developing stronger, lighter and more affordable grades of advanced high-strength steels (AHSS) that will help automakers achieve the new tough standards announced by President Obama.

"Over the past decade, the North American steel industry has continued to reinvent new grades of steel that improve safety and help to reduce vehicle weight," said David C. Jeanes, P.E., president of SMDI. "Today's advanced high-strength steels can reduce a vehicle's structural weight by as much as 25 to 32 percent, which can help reduce fuel consumption and CO2 emissions, making these new steels among the most environmentally friendly materials available for future vehicles."

On September 15, President Obama detailed his administration's proposed new fuel economy standards and the first-ever national greenhouse gas emissions requirements, which could cut American oil consumption by 1.8 billion gallons over the life of vehicles produced from 2012 to 2016 and reduce emissions by nearly 950 million metric tons. The proposed mandate would require passenger cars and light trucks to meet a 35.5 miles-per-gallon industry average – about a 5 percent increase each year – and a

combined average limit of 250 grams of CO2 emissions per mile, beginning in 2016.

"Beyond tailpipe emissions, automakers and consumers need to address the total carbon footprint of vehicles by considering their impact over their full life cycle," said Ron Krupitzer, vice president of automotive applications for AISI's SMDI. "Of course, reducing tailpipe emissions is important. However, if we do that without regard to the carbon consequences of building vehicles or retiring them from service, it is possible that carmakers could make poor environmental choices with the materials they use to build cars and trucks."

According to Krupitzer, steel can help reduce total life cycle CO2 emissions by virtue of its mass reduction capability, its relatively low energy CO2 intensity compared to other materials (e.g., about 25 percent of that of aluminum or less than 15 percent of that of magnesium) and its total recyclability.

A recent study by research firm, Ducker Worldwide, shows that AHSS is the fastest-growing material in today's new vehicles, which indicates that automakers already see the benefits of these new steels in terms of cost, mass reduction, fuel efficiency and safety. According to the study, because of these advantages, manufacturers will continue to expand the implementation of these grades to meet the new fuel economy requirements, while maintaining crash safety and affordability.

Alcoa and Novelis to procure UBCs

Alcoa and Novelis have formed a new, joint venture company, Evermore Recycling LLC, for the procurement of aluminum beverage containers (UBCs). Evermore Recycling will provide suppliers a direct relationship with Alcoa and Novelis, two of the leading consumers and processors of UBCs within North America. The goals of the joint venture are to build stronger supplier relationships, deliver cost savings and efficiencies within the UBC purchasing process, and accelerate strategic initiatives to reach the industry's goal of increasing the aluminum can recycling rate to 75 percent by 2015.

Evermore Recycling is limited to the procurement of UBCs. All other aspects of Alcoa and Novelis' businesses will remain completely independent. In September, Evermore Recycling initiated commercial relationships with prospective suppliers for deliveries effective January 1, 2010.

Evermore Recycling will be headquartered in Nashville and will employ approximately 20 individuals.

Samuel Manu-Tech makes acquisition

Samuel Manu-Tech, Inc., reported that it has acquired the principal assets and all of the business operations of Piling Products, Inc. (PPI), a Florida based distributor of hot rolled and cold formed steel sheet piling.

This strategic acquisition extends Samuel's existing Roll Form Group sheet piling business and provides sales coverage in the southern United States, giving the Roll Form Group coast-to-coast sales coverage. Established in 1984, PPI has achieved a leading position in the Florida sheet piling sales and rental market and throughout the surrounding states. Annual sales for the company's most recently completed fiscal year ended March 31, 2009 approximated \$12 million.

The purchase price is \$12.6 million plus a potential earn-out payment not to exceed \$2.2 million. Management expects this acquisition to be accretive to earnings in its first full year of operations. Existing senior management will continue with the business. Funding for the acquisition came from Samuel's existing revolving credit facility.

Upcoming Section B editorial focus topics:

ISSUE	CLOSE	FOCUS
NOV	10/16	C&D
DEC	11/16	Alternative Energy
JAN	12/17	Auto
FEB	1/19	Tires/Rubber
MAR	2/16	C&D
APR	3/17	Solid Waste
MAY	4/16	Auto

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New technologies recover insulated wire

by MIKE BRESLIN

mbreslin@americanrecycler.com

There's a great deal of value in the copper conductors inside small diameter insulated wires. The problem has always been how to get it out – profitably. For most of its history the solution for small gauge wire was the landfill. Unfortunately, in most cases it still is. But things are changing quickly.

Throughout most of the EU countries, Waste Electrical and Electronic Equipment (WEEE) regulations are emerging that set disposal limitation targets for e-waste going into landfills. This initiative created a wave of new technologies that are now breaking on American shores. In the United States there are also growing concerns over e-waste going into landfills, or being exported as potentially dangerous cargo if not recycled properly in the destined country. In response, electronic manufacturers, regulators and recyclers are looking for more productive ways of separating copper from insulation to create two fractions, thus avoiding the tipping point.

“Up until the big crash we couldn't make equipment fast enough,” said Shelly Zelunka, a partner in Gensco Equipment, a major manufacturer of recycling equipment, including a large line of wire stripping and granulating machines. “But as copper prices have recovered we have seen an improvement in our equipment sales. I think we've bottomed out and I expect continued growth.”

No question that equipment used for recovering copper from wire and cable has been hit hard by the recession, but as copper prices have rebounded the equipment manufacturers interviewed for this article seemed mildly optimistic.

When copper was over \$4 a pound everybody was looking to strip as much as possible. Even a modest investment in a bench top stripper made sense and smaller processors were reaping profits themselves rather than sending raw wire out to an automated chopping operation.

But whether recovering a few pounds of copper, or looking to extract tons of insulated wire from auto shredder residue (ASR) or e-waste, having the right tools and technology to do the job is critical to profitability.

The technology for wire stripping and granulating equipment is basic. There have been incremental improvements, however, particularly in controls and reduced energy consumption, and in the development of compact granulator-separator-air blowers combined in one machine. Competition among the many manufacturers is fierce. In view of the economy, there may be some good bargains now to be found at all price points.

In recovering insulated copper wire from ASR, there's a technological revolution occurring based on induction and near-infrared sensors that is just beginning to deliver additional revenue for auto shredders and holds future promise for e-waste processors.

In May, the Wendt Corporation, a manufacturer of automobile shredders and downstream recovery systems, completed the first installation of its new wire recovery technology at a United States shredding plant.

Due to Wendt confidentiality agreements, the name and location of the auto shredder cannot be disclosed, but it is a large multi-shredding operation in a western state. The quantity of insulated copper recovered by the new system seems unprecedented. “Less than one percent of insulated wire will remain in the trash stream with our new Finder. Interesting thing is, every visitor that I have taken to see this facility has purchased the equipment,” said Bill Close, sales engineer for Wendt.

Close has reason to be happy. He has sold three more systems incorporating ten of the new Finders.™ He said his phone never stops ringing with inquiries.

Wendt is not the only company deploying this new generation of sensors to recover insulated wire from ASR. Wendt is selling its systems outright to American auto shredders while SGM Magnetics, based in northern Italy, is busy licensing its new wire sensing equipment to United States auto shredders and metal recovery companies.

Companies that specialize in collecting light ASR fraction and process it for non-ferrous in their own plants may be using similar technology, but for obvious reasons, these processes are often closely guarded secrets.

How the new Wendt system came into being is a result of unintended consequences. In August 2007, Wendt engineers were conducting a plastics recovery study for one of its American shredder customers. For the test they used infrared equipment developed by TiTech GmbH and they noticed that they were able to concentrate wire fractions. Wendt speculated that if they were able to combine near infrared (NIR) with a metal sensor it would be even more discriminatory in producing a wire fraction. Working closely with TiTech, Wendt developed and brought its new PolyFinder™ to the United States in April 2008.

Wendt uses two types of TiTech sensors to scalp the wires from the flow. In one pass, wire is recovered from the waste stream with metal detection equipment called the Finder, an inductive sorter tuned at a very high sensitivity that uses TiTech's SUPPIX object recognition image processing to



Piles of insulated copper wire that have been recovered from auto shredder residue can add up to big profits. The difficulty lies in sorting and collecting it.

detect and separate the smallest metal particles. Mixed metals then flow across Wendt's PolyFinder sorter that uses a NIR scanner combined with metal detection to identify various types of polymer insulations and the copper inside the insulation. “If we find a piece of PVC, for example, that also has a metal signal, we know it's an insulated wire and we take it out of the flow,” said Close. Wendt claims that the recovered insulated copper wire is very clean with minimal stainless steel in small enough sizes not to damage wire chopping machinery.

Wendt is the exclusive distributor for this TiTech technology for ASR applications in North America. TiTech, headquartered in Oslo, Norway has its main manufacturing facility in Germany. TiTech developed the world's first NIR sensor for waste sorting applications and today has more than 2000 TiTech units operating in 25 countries.

Wendt not only builds its shredders and downstream equipment domestically, but is now also manufacturing the Finder and PolyFinder machines in the States. Wendt imports the TiTech electrical machinery.

See WIRE RECOVERY Page 5

Aluminum Sweat Furnaces —An Essential Tool for Recycling Aluminum—

Model No.	Capacity Example	Holding Chamber (approx. weight)
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AK5500	15-16 transmissions	750-800 lbs.
AK6000	20-22 transmissions	850-900 lbs.
AK7000	40-45 transmissions	1,200-1,500 lbs.
AK8000	50-55 transmissions	3,000-3,200 lbs.
AK8500	70-80 transmissions	4,500-5,000 lbs.

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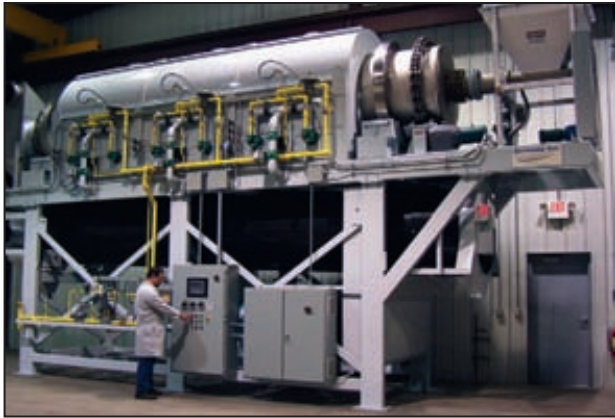
EQUIPMENT SPOTLIGHT

Sweat furnaces

by MARK HENRICKS

mhenricks@americanrecycler.com

To a recycler, an object such as an automobile transmission resembles a piece of candy in which the wrapper is more desirable than what's inside. The aluminum of the casing is more valuable than the steel gears and other contents it holds. But most recyclers find that manually separating such transmission cases from their contents is usually prohibitively costly.



EnviroAir, Inc

For these recyclers, sweat furnaces offer an effective and affordable way to separate non-ferrous metals such as aluminum from less-valuable iron and steel. Sweat furnaces heat commingled recyclable metals to a temperature that causes the non-ferrous metals to melt and run off, leaving behind steel and other materials that melt at higher temperatures.

At sweat furnace maker EnviroAir, Inc. in Eagle, Wisconsin, CORECO Product Manager Dean Lesch said modern machines like those his company makes provide several appealing features. Compared to traditional sloping hearth sweat furnaces, recyclers don't need to manually rake off iron and other non-melting contaminants. They also avoid impinging flames directly on molten aluminum, which creates dross. Other designs may also allow iron to dissolve into aluminum. Most importantly, up-to-date equipment meets ever-tougher environmental regulations.

CORECO designs employ a continuous rotary sweat furnace. "Material is constantly fed into the rotary hearth while molten aluminum is constantly being sweated out," Lesch explained. "Any non-melting metals such as iron, brass or copper flow out the discharge end of the rotary hearth clean of any aluminum. The rotating action of the tube self cleans the tube by constantly creating a scouring action from the non-melting

metal that prevents a buildup of material on the tube."

Indirectly heating the CORECO furnace avoids impinging flame on the materials, reducing the loss of aluminum and other saleable non-melting metal through oxidation. "The rotary hearth is heated from the outside thereby separating the combustion system from the aluminum sweating process," Lesch said.

Also, molten aluminum quickly runs down the angled rotary hearth and into a mold or holding furnace so that remaining iron won't dissolve into the aluminum. "The aluminum does not pool inside the rotary hearth eliminating the opportunity for the iron to rest in the molten aluminum and be dissolved," Lesch said.

CORECO has two standard models. The Model 1231 rotary sweat furnace handles 2,000 lbs. per hour of input. The Model 1848 rotary sweat furnace handles 5,000 lbs per hour of input.

Most customers are scrap processors, foundries, die casters and part manufacturers, which use the furnaces for in-plant recovery of mixed metal scrap.

Orders have held up well, Lesch said. "Since our equipment makes money, lowers operating cost and is good



Recycling Services International

for the environment, many companies see the value of our equipment," he said. "This has allowed us continued growth and the development of new equipment and processes to further help our customers."

At Recycling Services International in Cohoes, New York, owner David Conway said the ability to satisfy environmental regulations drives much of his business. "It's our pollution controls and the operational controls for efficiency and pollution control efficiency," he said. "We use the latest technology." Recycling Services employs solid state con-

trols to help maintain temperature in furnace oxidizers, while also getting the maximum fuel efficiency.

That helps his customers rest easy. "With my customers one of the biggest fears is the Environmental Protection Agency," said Conway. "But over the last four years, we've permitted over 35 furnaces and we've never been denied a permit." Today Conway is designing furnaces that meet twice the minimum required pollution control requirements. "The reason we build them that way is, if EPA does change the regulations, we're already ahead of the game," Conway said.

EPA limits the amount of hazardous air pollutants in tonnage per year that a furnace can emit. They also have a minimum requirement of eight tenths of a second of retention time in the afterburner, at a minimum temperature of 1,600 degrees in the afterburner chamber. "Our units have twice that retention time and are capable of maintaining a temp of 2,000 degrees," Conway said. "We over-build that part of the unit just in case of something coming down the pike so we're always a step ahead."

Conway's MAX-4000 aluminum sweat furnace is his most popular model. These are typically used for melting aluminum castings, such as transmissions and engines. The furnaces are large enough to hold approximately 15 transmissions at a time.

After aluminum melts in the MAX-4000, it flows to a separate holding chamber that is kept at a lower regulated temperature. "We have that separate holding chamber because to hold that molten aluminum we only need 1,400 degrees, but we need 1,600 to melt it," Conway said. "And the more temperature you

have in that holding chamber, the more metal loss."

Conway also builds furnaces with special continuously monitored high-temperature afterburners that run at 2,200 degrees for processing scrap such as electrical transformers that have been contaminated with PCBs. He also builds furnaces that reclaim non-ferrous precious metals such as gold from computer circuit boards.

After a very busy three years, sales slowed almost to a halt for the last year, Conway said. He is optimistic about growth in sales of furnaces that employ

alternative fuel sources, such as landfill methane gas. Heat recovery systems also promise to help spur the market, as furnace waste heat is redirected to preheating combustion air, heating existing buildings as other uses. The availability of government grant money is driving much of that demand, he said. "It's really picking up now. We've sold two aluminum furnaces in the last three months and a transformer furnace."



Aluminum King

Manufacturer List

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Jerome Mostek
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EnviroAir, Inc.
Dean Lesch
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WorldAutoSteel group develops vehicle concept

As worldwide demands for affordable, safe and high-efficiency vehicles surge, the global steel industry's WorldAutoSteel automotive group, supported by AISI's Steel Market Development Institute, is launching Phase 2 of its Future Steel Vehicle (FSV) program aimed at helping automakers optimize new propulsion technologies that will soon enter show rooms.

The FSV program recently completed Phase 1 of its research and has released its findings and plans for Phase 2.

For Phase 1, FSV's technical team, which includes EDAG, Quantum Technologies, SFCV/Tongji and WorldAutoSteel material experts, considered 4 technical specification options for proposed 2015 to 2020 model year vehicles: battery electric (BEV) and plug-in hybrid-electric vehicles (PHEV) for 4 or more passengers; and PHEV and fuel cell vehicles (FCV) for 5 passengers.

Each of these options was evaluated by the engineering team and powertrains were selected based on performance, viability for production in 2020 and cost. Two vehicle classes were identified as well:

- FSV-1 is a four-door hatchback with BEV and PHEV20 powertrain variants; and

- FSV-2 is a four-door sedan and is designed to accept two powertrain options: a PHEV40 and a fuel cell electric vehicle.

In Phase 2, the purpose will be to develop detailed design concepts and fully

optimize a radically different body structure for the FSV-1 BEV. It will also identify structure changes to accommodate the other three vehicles and powertrain variants.

In addition to meeting or exceeding future safety and performance requirements, extremely aggressive weight-reduction targets have been set for FSV Phase 2. The FSV team intends to meet these targets using engineering design optimization and advanced steel technologies. Achievement of such aggressive weight reduction with steel will set a new standard for vehicle design approaches for the future.

The FSV Phase 2 development will consider a total life cycle assessment of the concept designs to meet CO2 emissions targets. Regulations that consider only the vehicle use phase can encourage the use of low-density, greenhouse gas-intensive materials that provide lighter weight components. However, this may have the unexpected result of increasing GHG emissions during the vehicle's total life cycle.

In 2008, the FSV team released preliminary styling imagery for an early reveal on what the FSV vehicles might look like. Since then, the design process has taken the team through a number of iterations.

WorldAutoSteel and its global engineering partners will develop FSV Phase 2 through 2009 and 2010. This will be followed by a demonstration hardware phase.

Wire recovery

■Continued from Page 3

tronics and builds them into the Finder and PolyFinder conveyor housings to American specs, installs and services the equipment. "The cost of PolyFinder technology is just slightly more than other finder-type technology and the payback on the investment can be as little as six to eight months," Close estimated.

TiTech's Finder is also helping large e-waste recyclers liberate mixed non-ferrous metals, including wire, from plastics and fiberglass, but thus far the PolyFinder is not being used to discriminate a purely insulated wire fraction. The PolyFinder, however, has been demonstrated in Germany with e-scrap shipped from America. "In maybe one or two years the PolyFinder will be used by e-scrap recyclers, because e-scrap is a much younger business than the automotive shredding industry and deals in relatively low volumes," said Alex Wolf, sales engineer for TiTech's North American market. "The Finder is capable of removing more than 97 percent of the mixed non-ferrous metals from plastics and fiberglass which includes wire," Wolf claimed. Since 2006, TiTech has installed Finders at five major American e-scrap processing plants. "A Finder makes sense if you are processing a large volume. Usually we say you must have 1.5 million pounds or more per month running through your shredder for a Finder to have a payback of less than a year. You could potentially take that metals mix and run it over a PolyFinder to make a concentrate of insulated wires," Wolf predicted.

The other day a woman came up to me and said, "Didn't I see you on television?"

I said, "I don't know. You can't see out the other way."

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Non-ferrous

■Continued from Page 1

quickly. But he expects the recovery to resemble more of a U-shaped, or possibly even a W profile.

"We have come off the floor fairly fast driven by Asia, but we are likely to see the strength of the rebound moderate a little bit over the next six to eight months," he said.

The cash prices for aluminum, for example, breached \$2,000 a metric ton in July on the London Metals Exchange.

Since there continues to be an increase in visible inventories, according to research by IHS Global Insight, the prices appear to be driven largely by investor demand, which might suggest a modest pullback in pricing.

Copper prices also increased from around \$5,000 a metric ton at the start of July to over \$6,000 a metric ton in early August. The forecasting firm is predicting an average price of \$5,602 a metric ton in the third quarter and \$5,875 for the fourth quarter.

A Closer Look

by Donna Currie

Acme Refining

Paul Hobbs • 773-858-4500

Acme Refining got its start in 1973, operating out of a two truck garage in Chicago. Founder Lou Baron was joined by his son, Larry, in 1975, and Lou's daughter, Iris, came onboard in 1981.

Fast-forward 36 years, and Acme boasts over 150 trucks, 300 employees and 6,000 industrial scrap accounts. The company has six scrap yards and services a four-state area from South Bend, Indiana to Racine, Wisconsin, all run from the company's corporate office in Chicago.

Larry Baron has taken over the business from his father, according to Paul Hobbs, the company's non-ferrous marketing manager. "Larry quadrupled this company," Hobbs said.

Hobbs has been with Acme for ten years, after a stint at the mercantile exchange. He felt that the exchange was going to be a dead-end job for him, and knew about Acme because of his friendship with the Baron family, and particularly Brett Baron, Larry's son, who at that time had recently joined the company's sales staff.

Hobbs said that when he first started with the company, there were only two yards, and "now we surround the city." He said that he's seen the change in the scrap industry in Chicago from a "mom and pop" culture, "and now it's more corporate."

As part of that corporate culture, Acme became ISO 9000 certified in 2004. "You keep going, or you go under," Hobbs said. "With our large accounts, you have to be an ISO, you have to follow the trends."

The company has continued growing. Larry's daughter, Lindsey, joined the company that same year, and Brett started the company's demolition division. "Now we're in the third generation and we're looking to the future," Hobbs said.

According to Hobbs, 99 percent of the company's business is industrial accounts, and while Acme specializes in non-ferrous, "we handle them all," he said. Besides ferrous and nonferrous scrap, the company also does spent-oil recycling and certified document destruction, including both the shredding of paper documents and the destruction of computer hard drives. And if a customer has paper or cardboard to recycle, Acme can handle that material, as well.

As the non-ferrous marketing manager, Hobbs is in charge of checking the non-ferrous markets each day for the most current pricing, which he passes along to the company's sales team. "We have over 30 sales people," he said, "anywhere from Rockford to South Bend to Wisconsin."

To take care of all those customers, there are Acme trucks on the street "twenty-four hours a day, every day of the year." Hobbs said that the philosophy is that the customer comes first, and since many run their production lines 24 hours a day, Acme can service them on the same schedule.

Besides handling recycling for others, Acme does its part for the environment by running its trucks and heavy equipment on biodiesel, which was implemented about three years ago. A tire-recapping program saves about half the tires that would normally have to be replaced each year.

Hobbs explained that besides providing standard scrap handling and storage equipment, Acme can make scrap handling containers to suit the customer's needs, including leak-proof boxes and special-sized containers for slitting and stamping lines. "There's not a need that we won't try to fill," he said.

When non-ferrous material comes in, it is segregated and hand sorted, "you don't use magnets and grapples," Hobbs explained, and then it is packaged and shipped, mostly to domestic mills. Hobbs said that a very small percentage of material is sold for export, "but we use brokers to do that."

But it's not all about corporate growth. Hobbs said, "Acme is a great company. It's family oriented. I get to see my friends every day I come to work."



China's WTO non-compliance a problem for U.S. manufacturers

The American Iron and Steel Institute (AISI), on behalf of its United States member companies, submitted comments to the Office of the United States Trade Representative's Trade Policy Staff Committee (TPSC) documenting China's non-compliance with the commitments it made upon its accession to the World Trade Organization (WTO) and called for "decisive action." Of main concern, AISI pointed out that China's non-compliance with its WTO obligations remains a severe and growing problem for American steel producers and other domestic manufacturers.

"In each submission (to the TPSC - 2004-2008), AISI has documented how China has used subsidies and other forms of government support to build an enormous steel industry in violation of market principles and China's WTO commitments," read AISI's comments.

AISI went on to point out that:

- China's massive government-directed steel industry continues to grow;
- Chinese steel exports continue to injure the American steel industry;
- Chinese steel production practices cause environmental damage;

•Decisive action against trade-distorting Chinese steel policies should be taken.

In addition, AISI noted that its submission does not attempt to identify and discuss every outstanding issue with respect to China's WTO compliance; however, there are several issues of particular importance to United States steel producers. These issues include: subsidies; state-owned enterprises; government policies distorting the market for raw materials; currency manipulation; China's continued treatment as a non-market economy; enforcement of the China-specific safeguard provision (Section 421); product safety issues; and intellectual property rights.

The comments highlight the United States Administration's need to address the fact that "today, China is on pace to produce over 500 million MT of crude steel and has captured 48.5 percent of global market share. These facts show that the United States' approach has not been effective in bringing China into compliance. Rather, China is continuing to use trade-distorting measures to build a massive steel industry that is injuring the American steel industry, the American economy, and the environment."

Total steel import permits decline

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis data, the American Iron and Steel Institute reported that steel import permit applications for the month of August totaled 952,000 net tons (NT). This was a 3 percent decrease from the 978,000 permit tons recorded in July 2009 and a 3 percent decrease from the July preliminary imports total of 985,000 NT. Import permit tonnage for finished steel in August was 801,000 NT, a decrease of 9 percent from the preliminary imports total of 884,000 NT in July. The finished import permits for August are lower than any prior 2009 finished import monthly totals. August 2009 total and finished steel import permit tons would annualize at 15,841,000 NT and 14,613,000 NT, down 50 percent and 44 percent, respectively, from the

31,927,000 NT and 25,956,000 NT imported in 2008

In August 2009, the largest finished steel import permit applications for off-shore countries were for Korea (84,000 NT, up 14 percent from July), Japan (38,000 NT, down 56 percent), Brazil (37,000 NT, up 365 percent) and China (32,000 NT, up 9 percent). Finished steel import market share in August is estimated at 15 percent and at 24 percent year-to-date.

Finished steel import permits for products that registered increases in August vs. the July preliminary include wire rods (114 percent), hot rolled sheets (55 percent) and cold rolled sheets (40 percent). In addition, due to the aforementioned hot and cold rolled sheet gains, total sheet product permits increased 24 percent vs. the July preliminary figures.

Precision Castparts acquires Carlton Forge Works and Arcturus

Precision Castparts Corp. (PCC) has agreed to acquire Carlton Forge Works and related entities for \$850 million.

Carlton, a manufacturer of seamless rolled rings for aerospace applications, offers nickel, titanium and steel rolled rings across a range of product sizes in the industry. Founded in 1929, Carlton operates one facility in Paramount, California.

Said Mark Donegan, chairman and chief executive officer of Precision Castparts Corp, "Ring rolling has been a distinct gap in our product portfolio, and Carlton will enable us to provide a full range of products to our engine customers.

Carlton has also been very successful in building its market positions on all major programs currently in development, including the Boeing 787 and Airbus XWB.

As part of the transaction, PCC will also acquire Arcturus Manufacturing Corporation (Arcturus), a hammer forging operation in Oxnard, California.

Subject to regulatory approvals, the acquisitions are expected to be completed during the third quarter of fiscal 2010, after which their results will be reported as part of the Forged Products segment.

Living Steel showcases next-generation architecture

PHOTO COURTESY OF LIVING STEEL

A commemorative book documenting the visionary and varied responses to the Living Steel's International Architecture Competitions will be available globally in November.

Houses of Steel features 48 unique award-winning designs from Living Steel's International Architecture competitions for sustainable steel homes, including single and multi-story residential projects.

All featured designs are winners or finalists from the three unique competitions, documenting the most outstanding entries between 2006 and 2008, including projects across India, Poland, Brazil, China, Russia and the United Kingdom.

Each project is presented with detailed sketches, 3D elevations, drawings and architectural plans, highlighting inventiveness, originality and sustainable features of the builds. Further information on each entry is detailed on the

Living Steel website with flash modules to supplement the reading experience.

The collaborative competition was launched to develop innovative approaches to meet sustainable housing needs using steel worldwide – a ubiquitous building material that offers a unique, cost effective design solution for the world's growing urban populations.

Director of PCKO Architects and competition jury member, Andrew Orgorzalek, said the book will inspire upcoming architects to rethink their approach to developing long-term sustainable housing. "Steel technology in its pure form is traditionally rarely used in design, despite its ability to create light, flexible and transparent structures which offer cost-effective and recyclable housing."

Visit www.livingsteel.org for further information on Houses of Steel and the Living Steel program.



A design by Piercy Conner Architects (UK) was the winner of a 2006 Living Steel competition for a structure to be built in India.

China Gengsheng Minerals introduces more efficient, castable back lining for steel makers

China Gengsheng Minerals, Inc., a materials technology company in China with high-temperature resistant products, announced that it has developed a new refractory product for its steel company customers to cut energy costs and increase efficiency during steel-making.

The Company held a teach-in on the new, high-performance, thermo-insulating and light castables at China's largest steel and iron conglomerate, Shanghai Baosteel Group Corporation, where Gengsheng's CEO, vice president of product development and technology adviser, shared product specifications and testing results with Baosteel's directors of the procurement department, the technology department and various other managers and in-house experts.

Traditionally, Chinese steel mills use a dense castable as the back lining in heating furnaces to maintain the high temperature required for steel-making. The dense castable is bulky, heavy and consumes a large amount of electricity while in use. Gengsheng's proprietary light castable is more than two times lighter than the traditional kind while exhibiting better durability and contraction-resistance under high temperatures. The average price for Gengsheng's light castable is expected to be more than twice that of the traditional, dense one and the gross margin is also expected to be about 30 percent higher. The new product has now been officially accepted for trial use at Baosteel.

"After introducing our pressed bricks last year, we are now proudly showing a

new type of functional refractory product to our steel customers," said Mr. Shunqing Zhang, chairman and CEO of Gengsheng. "We are excited about this new product's market potential, as all furnaces in steel mills require castables as back lining, the layer that helps maintain a high-temperature environment. Our new product is attractive to steel companies because it is more cost-effective and energy-saving at the same time."

Nucor to pay 146th cash dividend

The board of directors at the Nucor Corporation have declared the regular quarterly cash dividend of \$0.35 per share on Nucor's common stock.

This cash dividend is payable on November 11, 2009 to stockholders of record on September 30, 2009, and marks Nucor's one-hundred forty-sixth consecutive quarterly cash dividend.

PRMX to expand cash-for-gold recycling program

Precious Metals Exchange Corp. (PRMX) announced the Company has hired Jacob Miles as a consultant to focus on strategy and marketing. Miles has also been nominated to the Company's board of directors and is a former senior executive of both the General Mills® and Tonka/Hasbro® Corporations. Miles also previously served as a divisional director of General Mills® and The United Way Foundation.

Garrett Vogel, president and director of Precious Metals Exchange Corp., stated, "In his new position, Jacob will be responsible for executing a successful Go-To-Market strategy and branding of the CashOutMyGold direct response national internet and television marketing campaigns."

Mr. Miles remarked, "We are in an exciting new era in the precious metals recycling sector. Recycling old gold from jewelry and other items that contain the precious metal is a literal gold

mine estimated at \$4 billion annually in the United States alone. The 'Cash for Gold' by mail-in business model has already proven itself as a viable means of generating substantial revenues with use of direct response television marketing along with the internet, which has opened up a global market that has accepted this method and business model for selling gold as credible. The largest competitor in this market space has already proven that the mail-in business model can generate revenues of several hundred million annually for a single company. We believe that CashOutMyGold.com can become not only a serious competitor but a leader in the space. Demand for gold is out performing traditional gold mining by 59 percent at present; recycling gold from old and broken jewelry will become the new standard for mining gold and PRMX is at the forefront of this trend."

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