



# American Recycler

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## FOCUS: Rubber

### Crumb rubber use growing in construction



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# Glass recycling stalls in U.S.



Mounds of processed glass await the next step in the recycling process.

PHOTO BY MORENO SOPPELSA | DREAMSTIME

by MAURA KELLER

[mkeller@americanrecycler.com](mailto:mkeller@americanrecycler.com)

According to a January 2020 market research report by Technavio, the glass recycling market is expected to grow by \$916.33M by 2023. But this study was released two months before the pandemic encapsulated the overall recycling industry – altering the ways industry players do business.

Owens-Illinois, Inc. (O-I) Glass’ chief sustainability officer, Randy Burns said that in the U.S., he would frame the current status of the glass recycling industry as “stalled to declining”.

“Glass recycling rates have been stalled at 34 percent for the last decade in the U.S.,” Burns said. “There are multiple causes: in recent years, as myths about little or no markets for glass surfaced, increased contamination in the single stream bin, lack of investment in recycling infrastructure and the reduced value of the recycled commodities have put a strain on the economics of recycling and municipal budgets. All of these factors have played a role.” And the COVID-19 pandemic is only adding to these ongoing challenges.

Likewise, Jim Nordmeyer, vice president of sustainability at O-I Glass said globally, glass recycling has also stalled. Europe (the gold standard in glass recycling) has been in the mid 70 percent range for the last 5 years.

“The upcoming “Close the Loop” launch by FERVER and FEVE to increase recovery to 90 percent by 2030 is evidence that even in well-developed high recycling regions, new legislation is needed requiring recycling and high landfill tip fees,” Nordmeyer said. “These types of new and different ways to recycle are required globally to help boost the recycling industry.”

Scott DeFife, Glass Recycling Coalition leadership and president of the Glass Packaging Institute agreed that while glass recycling has leveled off in recent years, due to gaps in recycling sorting and collection, the glass recycling industry is seeing new entrants and innovative thinking within the industry.

“There remains a strong desire from consumers to recycle glass, and the major end-markets desire more quality material,” DeFife said. “Globally, while there are challenges, interest in glass recycling remains high.”

Indeed, as Nordmeyer pointed out, according to FEVE, the European Federation of glass packaging makers, Municipal Waste Europe has agreed to partner with “Close the Glass Loop” with the objective to achieve a post-consumer glass container collection of 90 percent and to ensure that this glass collection is recycled back into container glass production as new packaging.

In the U.S., the Glass Recycling Coalition (GRC), the only organization in the U.S. focused solely on glass recycling, has been working diligently since 2016, to unite players throughout the glass recycling value chain. The two organizations intend to break down barriers and build regional opportunities to grow end-market demand for glass recycling.

Specifically, the collaborative focuses on enlightening communities, consumers, material recovery facilities (MRFs), and brands on glass recycling opportunities and addressing real and perceived barriers to glass recycling success. What’s more, the GRC provides tools for making informed decisions to strengthening recycling programs, recovering usable glass, and maintaining glass containers as a core

recyclable in recycling programs throughout the U.S.

So, what new technologies for glass recycling are taking hold that could potentially impact the much-needed innovations within the industry? “There are more options than ever before for glass clean up equipment at the MRFs, like air knives, vacuums, vibratory and trommel screens for glass sorting,” DeFife said.

Burns said the technology to recover and sort glass continues to improve. For instance, the capability of the optical sorters is getting more accurate at identifying and recovering glass free of non-glass contaminants.

“And there are significant markets for clean glass and the recycling industry in general would be wise to take initiative to clean up collection processes and capabilities,” Burns said.

O-I is partnering with the waste processing and glass supply chains on multiple fronts to help. As Nordmeyer explained, O-I is doing pro-recycling policy advocacy, such as supporting the RECOVER and RECYCLE Acts, leading the Glass Recycling Coalition, engaging with NGOs and ENGOs and grassroots efforts in communities in which the company operates.

“One community where these grassroots efforts are producing remarkable results is in Arlington, Virginia, where the community has recycled over two million pounds of clean glass since January 2020 at community drop-off sites despite its municipality eliminating curbside glass recycling pick-up,” Nordmeyer said.

In addition, the Glass Recycling Coalition developed the MRF Glass Certification in late 2019 to spotlight

See GLASS RECYCLING, Page A4

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## Miami-Dade County Waste wins awards

The Miami-Dade County Department of Solid Waste Management (DSWM) has won five 2020 Achievement Awards from the National Association of Counties.

The prestigious awards were granted to DSWM for the following programs:

- “Dirty Crimes Carry Fines” Illegal Dumping Prevention Education Campaign
- “Recycle Right” Recycling Education Campaign
- “Detox Your Home” Public Education Campaign
- Transfer Aluminum Trailer Pilot Program
- Mosquito Control Wolbachia Program

The awards honor innovative, effective county government programs that strengthen services for residents.

## TerraCycle’s zero waste boxes offer safe recycling solutions for PPE waste

In the wake of COVID-19, the planet needs protection from the surge of improperly discarded personal protective equipment (PPE) that is leaking into marine environments and posing serious hazards to ocean wildlife.

TerraCycle’s Zero Waste Boxes provide a convenient recycling solution for all types of single-use PPE, which are not recyclable through conventional recycling facilities. When placed in public spaces such as grocery stores, big-box stores and parks, Zero Waste Boxes encourage people to responsibly dispose of their protective gear instead of tossing items on the ground.

To recycle PPE waste, TerraCycle offers the following Zero Waste Boxes:

- Safety Equipment and Protective Gear Zero Waste Boxes – to recycle disposable safety gear including garments, gloves, masks and safety glasses.

- Disposable Garments Zero Waste Box – to recycle chemical protection suits, flame resistant suits, and smocks.

- Disposable Gloves Zero Waste Box – to recycle vinyl, nitrile, and latex gloves.

- Disposable Masks Zero Waste Box – to recycle surgical and industrial face masks.

For large-scale recycling solutions, TerraCycle offers the following Zero Waste Pallets:

- Safety Equipment and Protective Gear Zero Waste Pallet
- Disposable Garments Zero Waste Pallet
- Disposable Gloves Zero Waste Pallet

When full, the boxes can be returned to TerraCycle for processing and the collected waste will be cleaned, melted and remolded to make new products.

TerraCycle created the Zero Waste Box program to provide solutions for difficult-to-recycle waste that cannot be recycled through TerraCycle’s brand-sponsored, national recycling programs or via standard municipal recycling.

All Zero Waste Boxes are sealed while in transit, limiting any possibility of contamination. The boxes travel for up to a week before they are received at TerraCycle facilities, where additional safety precautions are taken in accordance with CDC recommendations. The Zero Waste Box program does not accept medical waste or biohazardous materials.

TerraCycle works with major manufacturers and retailers to recycle products and packaging that would normally be thrown away.

## NJ DEP accepting nominations for excellence in recycling

Nominations are being accepted in 10 categories for an annual recognition program to celebrate individuals, businesses and governments for extraordinary commitment to recycling, and inspire similar efforts by others, New Jersey Department of Environmental Protection Commissioner Catherine R. McCabe announced.

The DEP, in conjunction with the Association of New Jersey Recyclers, annually recognizes excellence in recycling to highlight program successes achieved by individuals, agencies, businesses and others whose efforts help keep New Jersey communities clean and healthy.

“As a longtime national leader in recycling, it is important that New Jersey recognize environmental achievements that have helped make us a more sustainable state,” commissioner McCabe said. “This annual awards program reminds us of the vital role recycling has in keeping communities clean and healthy, and in promoting environmental stewardship.”

Applications may be submitted in these categories: Institution, Business, Retail Merchant, Government, Leader-

ship, Rising Star, Recycling Industry, Outstanding Educator/Educational Program, Volunteer Citizen and Source Reduction/Resource Management/Sustainability.

Nominations are due Friday, July 31 and awardees will be notified in September. Award winners will be honored at the Association of New Jersey Recyclers Symposium and Awards luncheon scheduled for October 14 in Neptune, Monmouth County.

“We encourage the many people and organizations throughout New Jersey to nominate those in their communities who make recycling a priority, have helped educate residents and businesses on the importance of keeping our recycling stream free of unacceptable items and are committed to keeping our environment clean and healthy,” said Paul Baldauf, assistant commissioner for air quality, energy and sustainability. “The results of their efforts should be highlighted to demonstrate to others how they are making a difference across the state.”

The 2019 winners included a diverse group of businesses, organizations and individuals. Among them: a

distribution center in Westampton, Burlington County; a food waste recycling company in Elizabeth, Union County; a community college in Branchburg, Somerset County; a government recycling program in Maurice River Township, Cumberland County; and a recycling coordinator from Roxbury Township, Morris County.

New Jersey was the first state to require recycling by passing the New

Jersey Statewide Mandatory Source Separation and Recycling Act in April 1987. Today, the state continues developing policies to further increase recycling rates, clean up the recycling stream, and to adapt recycling strategies to match current lifestyles.

For a direct link to apply, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

## CDRA guides end market development

The Construction & Demolition Recycling Association (CDRA) has released guidelines to be considered when creating an end market for a waste material received at a recycling facility. Created by the CDRA’s End Markets Development Committee, the new document takes the user through the steps that have to be considered when trying to find a home for a new material.

Each material in the waste stream is different and will have specific nuances to deal with. But the CDRA is providing a general overview of what needs to be dealt with. The guidelines

were developed by people who have executed the process within their own recycling plants.

“New Product Development From Construction/Demolition Debris” is part of CDRA efforts to respond to a huge C&D industry need to find end markets, as identified by a survey of attendees at C&D World 2019. The End Markets Development Committee was formed for that reason, and this is just one of its accomplishments.


The guidelines are free to CDRA members and can be downloaded directly from the organization’s main website, [www.cdrecycling.org](http://www.cdrecycling.org).

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# Maryland Governor thanks solid waste industry in letter to SWANA

The Solid Waste Association of North America (SWANA) has received a letter from Maryland's Governor, Larry Hogan, thanking "SWANA and our nation's waste management professionals for their tireless efforts throughout the ongoing public health crisis." Governor Hogan is the chair of the National Governors Association (NGA).

Hogan's letter observes that despite the COVID-19 pandemic, "dedicated waste collectors, recyclers, drivers, engineers, technicians," and other professionals have worked hard "to

ensure our neighborhoods remain safe and healthy." He further noted that the widespread working from home over the past few months has "created additional stress on waste management systems." Data collected by SWANA indicates residential waste tonnage increased by 15 to 25 percent nationwide during the pandemic, although it is currently decreasing from the peak as states and cities have started to reopen.

The letter also recognizes SWANA "for advocating on behalf of your industry and providing critical information and resources to workers,

lawmakers, and the media regarding the impact of COVID-19 on waste management and recycling." David Biderman, SWANA's executive director & chief executive officer, stated "We are very proud to receive this letter recognizing the amazing job that the solid waste industry has done managing solid waste and recyclables during the pandemic, and the specific recognition of SWANA. We will continue to play a leading role providing timely and useful information and resources to employers, employees, federal government officials, the media, and others."

## Glass recycling

■Continued from Page 1

MRFs that are taking steps to clean up their glass streams to basic international standards.

The free certification program is open to MRFs with additional equipment and operational procedures to clean up glass in both single- and dual-stream systems that are producing more marketable and higher quality glass. MRFs are judged on current infrastructure and a glass purity measure by an independent committee scoring each MRF into gold, silver, and bronze certification levels.

"More creative thinking, out of necessity, has occurred in alternative collection systems that are producing clean quality streams of materials outside of the MRF processing," DeFife said.

To improve glass collection and recycling, industry players have to fight the ongoing misinformation and myths that consumers and others have about the industry. One of the biggest myths DeFife sees is that there are no markets for glass recycling.

"The glass container, fiberglass and building aggregate all seek more recycled glass," DeFife said. "The challenge is the consistency and quality of the material and myopic, short-term thinking rather than investment for long-term pay off."

Burns agreed that the massive prevalent myth is that there are no markets for glass. Whereas in fact, there are large markets for clean glass and a proof point is the demand for glass from the states with bottle bills.

"The same is true for clean, single-stream recovered glass, which comes from systems with modern sorting technology," Burns said. "This no-market myth and the perpetuation of it is undermining the market by misleading consumers into throwing glass into the garbage and diverting massive quantities of this valuable resource into landfills."

Another significant myth is that there are no markets for mixed colored glass. There are markets for glass colored brown, green or clear glass. To achieve the highest value for recycled glass, it needs to be color sorted.

"If O-I receives a pure stream of clear or brown glass, it holds much higher value than a stream of mixed colored glass," Nordmeyer said. "Even if various glass types are mixed, that in itself is still valuable and can be usable

by glass manufacturers. The myth of lack of value for mixed colored glass hurts the overall glass supply quantities because this glass tends to end up in landfills versus properly recycled."

### The COVID-19 Impact

In many parts of the U.S., COVID-19 has hampered glass recycling. According to DeFife, "bottle bill" states suspended enforcement, which has led to fewer redemptions, a key source of recycled glass (cullet).

"We are hopeful that those numbers will pick up in the third quarter," DeFife said. "In the non-bottle bill states, some waste management companies were forced to focus temporarily on overwhelming MSW collection and shifting from commercial collection to residential."

The suspension and/or reduction of redemption on the bottle bill states also has reduced the glass available from those states by nearly two-thirds. As Burns explained, 60 percent of recycled glass comes from the 10 bottle bill states.

"Suspension of recycling of single stream materials as MRF's adapted operations to comply with CDC guidelines has impacted inbound supplies from 20 to 40 percent," Burns said.

As for the future, DeFife said the domestic industries that use recycled glass are looking for more input and have goals to increase the percentage of recycled content in their product.

"Innovations in recycling and a focus on circularity are encouraging for increased use of glass and glass recycling," DeFife said.

That said, while impossible to be certain, Burns said initially the outlook for the glass recycling industry appears to be a long road to recovery.

"Recycling has suffered a setback and many waste haulers have used the pandemic to make changes as to what recycling materials they accept. Without investment in infrastructure and/or new pro-recycling legislation, recycling in the U.S. as we know it today is at a tipping point and can trend negatively or positively moving forward," Burns said. "It is largely too early to prognosticate. Behavior changes, consumption changes and municipality budget fluctuations will all play critical roles in shaping this future, for better or worse."



877-777-0043 | Fax 419-931-0740

### Owner, Publisher and Editor

**ESTHER G. FOURNIER**  
news@AmericanRecycler.com

### Print and Digital Production

**MARY E. HILL**  
mary@AmericanRecycler.com

### Marketing Representatives

**MARY M. THORNTON**  
maryt@AmericanRecycler.com

**MARY E. HILL**  
mary@AmericanRecycler.com

### Circulation Manager

**DONNA L. MCMANUS**  
donna@AmericanRecycler.com

### Writers and Contributors

**MAURA KELLER**  
mkeller@AmericanRecycler.com

**RON STURGEON**  
rons@rdsinvestments.com

**MARY M. THORNTON**  
maryt@AmericanRecycler.com

### Production Offices

1789 Indian Wood Circle, Ste 250  
Maumee, OH 43537  
877-777-0043 fax 419-931-0740  
www.AmericanRecycler.com

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

**SUBSCRIPTIONS:** Call our offices at 877-777-0043 or visit [www.AmericanRecycler.com](http://www.AmericanRecycler.com). US 1 year \$48; 2 years \$72.

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## Events

### August 16th-18th

**Waste Conversion Technology Conference & Trade Show.** Hyatt Regency Mission Bay Spa & Marina, San Diego, California.  
850-386-6280  
[www.wasteconversionconference.com](http://www.wasteconversionconference.com)

### August 18th-20th

**Agricultural Plastics Recycling Conference & Trade Show.** Hyatt Regency Mission Bay Spa & Marina, San Diego, California.  
850-386-6280  
[www.agplasticconference.com](http://www.agplasticconference.com)

### August 31st-September 3rd

**AISTech 2020.** Huntington Convention Center of Cleveland, Cleveland, Ohio.  
724-814-3000  
[www.aist.org](http://www.aist.org)

### September 14th-17th

**WasteExpo TOGETHER Online.**  
203-523-7044  
[www.wasteexpo.com](http://www.wasteexpo.com)

### September 22nd-24th

**2020 Annual Mora Conference.** Hilton-Branson Convention Center, Branson, Missouri.  
573-491-4255  
[www.moraconference.org](http://www.moraconference.org)

### October 4th-7th

**Strive For Sustainability: Solid Waste and Recycling Conference with Trade Show.** The Sagamore, Bolton Landing, New York.  
[www.conference.nyfederation.org](http://www.conference.nyfederation.org)

### October 20th-21st

**Rescheduled Northeast Recycling Council (NERC) Spring Conference.** Sheraton Hartford South Hotel, Rocky Hill, Connecticut.  
802-254-3636  
[www.nerc.org](http://www.nerc.org)

# NJ DEP awards \$19.4 million in clean community grants

The New Jersey Department of Environmental Protection awarded \$19.4 million in annual Clean Communities grants to help municipalities and counties remove litter to beautify neighborhoods, improve water quality and enhance quality of life, Commissioner Catherine R. McCabe announced.

In total, the DEP is awarding \$17.3 million to eligible municipalities and \$2.1 million to the state's 21 counties. The program is funded by a legislated user-fee on manufacturers, wholesalers and distributors that produce litter-generating products.

The nonprofit New Jersey Clean Communities Council oversees the reporting requirements for the program. Disbursements are based on housing units and miles of municipally owned roadways.

"Municipalities and counties are strongly encouraged to use these grants to pay for volunteer and paid cleanups, badly-needed equipment purchases, enforcement activities and education," said Sandy Huber, executive director of New Jersey Clean Communities Council. "We are grateful for funding that helps keep New Jersey clean. We are proud to serve as an educational resource for communities, as we drive many of our campaigns to engage the younger generations to help mold positive, long term behaviors toward discarding litter."

**Municipalities receiving the largest grants this year are:**

- Newark, Essex County, \$404,694
- Jersey City, Hudson County, \$373,700
- Toms River, Ocean County, \$210,009
- Paterson, Passaic County, \$181,064
- Hamilton, Mercer County, \$178,089
- Edison, Middlesex County, \$167,329
- Elizabeth, Union County, \$166,630
- Woodbridge, Middlesex County, \$164,439
- Brick, Ocean County, \$159,487
- Middletown, Monmouth County, \$144,268
- Cherry Hill, Camden County, \$141,869
- Trenton, Mercer County, \$133,431
- Clifton, Passaic County, \$129,674

- Vineland, Cumberland County, \$125,346
- Franklin, Somerset County, \$122,873
- Berkeley, Ocean County, \$122,649
- Camden, Camden County, \$118,720
- Gloucester Township, Camden County, \$116,662
- Lakewood, Ocean County, \$112,531
- Old Bridge, Middlesex County, \$112,307
- Howell, Monmouth County, \$110,108
- Jackson, Ocean County, \$107,743
- Parsippany-Troy Hills, Morris County, \$104,355
- East Orange, Essex County, \$103,657
- Manchester, Ocean County, \$103,563
- Wayne, Passaic County, \$100,900
- Bayonne, Hudson County, \$100,525.

**Counties receiving the largest grants are:**

- Ocean, \$196,702
- Cumberland, \$172,382
- Burlington, \$161,449
- Bergen, \$141,166
- Gloucester, \$132,249
- Camden, \$126,698
- Monmouth, \$121,119
- Atlantic, \$118,974
- Salem, \$114,801
- Middlesex, \$100,572
- Sussex, \$100,175

Litter comes from a variety of sources, such as pedestrians, motorists, overflowing household garbage, construction sites and uncovered trucks. People tend to litter when an area is already littered, and when they lack a sense of ownership or pride in their community.

Activities funded by Clean Communities grants include cleanups of stormwater systems that can disperse trash into streams, rivers and bays; volunteer cleanups of public properties; adoption and enforcement of local anti-littering ordinances; beach cleanups; public information and education programs; and purchases of litter collection equipment such as receptacles, recycling bins, anti-litter signs and graffiti removal supplies.

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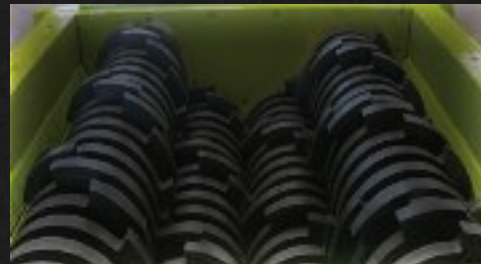
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## PAPER

# Recycling industry launches initiative to determine recyclability of products

## ISRI's Recyclability Protocol to start with paper products

The Institute of Scrap Recycling Industry (ISRI), serving as the voice of the recycling industry®, is developing a recyclability protocol and certification system for paper based packaging products entering into the recycling stream. Once developed, the protocol will be expanded to other products made from recyclable commodities.

“Under the current system, there is no standard to determine a product’s recyclability from beginning to end, which is an obstacle for increasing packaging recycling rates,” said Robin Wiener, president of ISRI. “Products are labeled recyclable that are not, consumers are confused, and the residential recycling stream is weakened by excessive amounts of products and materials that do not belong. Having one, universal determination for recyclability created by the recyclers that collect and process the material, in coordination with the mills that consume it, will be an enormous step forward in the evolution of recycling.”

The protocol and certification will be phased in over the course of the next year. Working with Moore & Associates as a third-party consultant, ISRI is currently undergoing a thorough review of existing certifications

and standards to aid in the integration of the protocol with any applicable programs. This will be followed by a survey of material recovery facilities nationwide to gain an inventory of packaging that is recycled from the standpoint of materials and shape/size as well as regional variances in technology and capacity. With the data, the certification protocol, including testing methodologies and procedures and the application process for obtaining certification, will be developed. The process for obtaining certification by brands will be fully documented and transparent.

“Once in place, the recyclability protocol will assist packaging manufacturers in understanding what is and what is not recyclable, especially in the design stage,” said Wiener. “This will lead to a revolution in design innovation as more brands seek ways to not only use recyclable content in production, but meet consumer demands for easy-to-recycle goods. As more products are developed with recycling in mind, consumers will rediscover recycling and the vast benefits it provides.”

As part of this comprehensive undertaking, among the many things

that will be taken into consideration are industry expertise on material supply, processing, and demand challenges and needs; ISRI’s Design for Recycling™ initiative, which encourages manufactures to factor in a product’s recyclability in the design stage; and the role of the ISRI Specifications, which are used globally to buy and sell recyclable commodities. ISRI will consult with the American Forest & Paper Association (AF&PA), the Foodservice Packaging Institute, The Recycling Partnership, and other stakeholders during the development of the protocol and certification.

“This protocol is just the start of an effort that has the potential to really change the world,” concluded Wiener. “Additional customizable protocols can be developed for packaging made from other materials, including aluminum and other metals. When put together we can expand the benefits of recycling and see further reduction in greenhouse gases, improved environmental conservation, and an economic boost. We encourage all paper and packaging brands to join in these efforts to make it easier for all to recycle.”

## Annual paper survey released

The American Forest & Paper Association (AF&PA) released the 60th Annual Survey of Paper, Paperboard and Pulp Capacity, reporting that while overall U.S. paper and paperboard capacity declined 0.5 percent in 2019, some sectors rose.

Tissue paper capacity rose 0.6 percent in 2019, matching the 10 year trend growth over 2010 to 2019.

The share of paper category capacity dropped from 44 percent in 2009 to 34 percent in 2019 as newsprint and printing-writing paper capacities continued to decline, more than offsetting the gains in tissue paper capacity.

Containerboard capacity increased 1.5 percent in 2019, reaching a record 40.3 million tons – this is the ninth consecutive increase. As a result, containerboard accounted for 48.6 percent of U.S. paper and paperboard capacity in 2019, up from 39.3 percent in 2009.

The report includes U.S. industry capacity data for 2019 and 2020 for all major grades of paper, paperboard and pulp, as well as fiber consumption, based on a comprehensive survey of more than 300 U.S. pulp and paper mills conducted during February and early March 2020. Survey data includes responses from companies representing 87 percent of U.S. paper and paperboard industry capacity, with estimates completing the data set.

## AF&PA updates paper reports

The American Forest & Paper Association released its April 2020 U.S. paper reports.

### Containerboard

Total containerboard production in April increased seven percent compared to April 2019. It was up seven percent when compared to the same four months of 2019.

•April 2020 production of containerboard for export increased 29 percent compared to the same month last year; it was up 41 percent year-to-date.

### Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased 30 percent in April compared to April 2019. U.S. purchases of total printing-writing papers decreased 29 percent in April compared to the same month last year. Total printing-writing paper inventory levels increased three percent when compared to March 2020.

•U.S. purchases of uncoated free sheet (UFS) papers in February decreased seven percent compared to last February while the inventory level remained essentially flat (+0.3 percent) compared to January 2020. UFS imports decreased 36 percent while exports increased 31 percent in January 2020.

•U.S. purchases of coated mechanical (CM) papers in April decreased 18 percent compared to last April while the

inventory level remained essentially flat (+0.2 percent) compared to March 2020. CM imports decreased 33 percent while exports increased 13 percent in March 2020

### Boxboard

Total boxboard production in April decreased two percent compared to April 2019. It was down two percent when compared to the same four months of 2019. The boxboard operating rate was 96.6 percent, up 2.3 points from April 2019 and essentially flat (-0.2 pts.) year-to-date.

•Solid bleached boxboard production in April decreased four percent compared to April 2019. It was down five percent when compared to the same four months of 2019.

### U.S. Packaging Papers & Specialty Packaging

Total packaging papers & specialty packaging shipments in April increased five percent compared to April 2019. They were up three percent when compared to the same four months of 2019.

The operating rate was 89.1 percent, up 1.4 points from April 2019 and down 1.3 points year-to-date.

Mill inventories at the end of April decreased 1,000 short tons from the previous month, and were down 3,000 short tons compared to April 2019.



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## PAPER

# Sustana Fiber accepts cartons at their Quebec paper mill



Sustana Fiber announced their paper mill located in Lévis, Quebec, is now accepting recycled food and beverage cartons.

The decision to accept recycled cartons at the Lévis facility reflects Sustana's strategic commitment to innovation and sustainability, as well as the need for alternative sources of high-quality fiber due to high demand for household paper products. Every carton recycled helps provide the raw materials needed to produce essential items, such as toilet paper and paper towels.

"At Sustana, we are enthusiastic champions of responsible manufacturing, environmental stewardship, and positive community impact," said Michele Bartolini, senior marketing director at Sustana. "By recycling alternative fibers, such as cartons, we are proud to enhance our support for a

thriving circular economy and help conserve precious resources. We are also keen to do our part, supporting the supply chain working to make the products people need right now."

Increased carton recycling helps preserve natural resources, meet important diversion and recycling goals, create jobs, and helps to avoid shortages of the pulp needed to manufacture essential items.

"Each new end market added means cartons have additional opportunities to be recycled into new products and stay out of landfills," said Jason Pelz, vice president of recycling projects for the Carton Council of North America. "While located in Canada, this new mill can provide an additional option for cartons collected in the northeastern part of the U.S."

## METALS

# Steel manufacturer corrects oil spill violations

The U.S. Environmental Protection Agency (EPA) announced a settlement with USS POSCO Industries under the Clean Water Act for violations of federal oil pollution prevention regulations. The metal products manufacturer has corrected the violations and agreed to pay a \$31,770 penalty.

"Facilities that store large quantities of oil must take every step to anticipate spills and preempt preventable releases to our waterways," said EPA Pacific Southwest regional administrator John Busterud. "California's Bay Delta is an important water resource and EPA will continue to ensure spill prevention measures are implemented properly."

USS POSCO Industries, which manufactures steel in Pittsburg, California, violated EPA's oil pollution

prevention regulations by failing to update and recertify its Spill Prevention, Control and Countermeasure (SPCC) plan for its Pittsburg facility; failing to perform routine oil tank inspections; failing to have adequate sensors on tanks; and failing to remove accumulations of oil outside tanks and collection trenches.

The goals of the Clean Water Act's SPCC regulation are to prevent oil from reaching waterways and adjacent shorelines, and to contain and respond to oil spills that do occur. The regulation requires onshore oil storage facilities to develop and implement SPCC plans to ensure procedures and equipment are in place to reduce risk and minimize or prevent water quality impacts.

## April 2020 steel shipments down

The American Iron and Steel Institute (AISI) reported that for the month of April 2020, U.S. steel mills shipped 5,623,229 net tons, a 27.9 percent decrease from the 7,802,192 net tons shipped in the previous month, March 2020, and a 31.5 percent decrease from the 8,210,425 net tons shipped in April 2019. Shipments year-to-date in 2020 are 29,732,832 net tons, an 8.1 percent

decrease vs. 2019 shipments of 32,362,476 for four months.

A comparison of April shipments to the previous month of March shows the following changes: cold rolled sheet, down 29 percent, hot rolled sheet, down 31 percent and hot dipped galvanized sheet and strip, down 35 percent.

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## AR Scrap Metals MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$262.00	247.00	252.00	263.00	274.00
#1 Bundles	per gross ton	252.00	235.00	237.00	255.00	269.00
Plate and Structural	per gross ton	250.00	224.00	229.00	243.00	268.00
#1 & 2 Mixed Steel	per gross ton	179.00	214.00	219.00	228.00	245.00
Shredder Bundles (tin)	per gross ton	122.00	123.00	149.00	135.00	128.00
Crushed Auto Bodies	per gross ton	122.00	123.00	149.00	135.00	128.00
Steel Turnings	per gross ton	79.00	85.00	85.00	140.00	143.00
#1 Copper	per pound	2.20	2.09	2.24	2.33	2.43
#2 Copper	per pound	2.04	1.95	2.15	2.19	2.30
Aluminum Cans	per pound	.47	.49	.48	.44	.49
Auto Radiators	per pound	1.25	1.21	1.25	1.40	1.38
Aluminum Core Radiators	per pound	.48	.47	.41	.39	.52
Heater Cores	per pound	1.03	.96	.97	1.00	1.07
Stainless Steel	per pound	.48	.45	.43	.45	.45

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

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

# METALS

## April 2020 crude steel production decreased

World crude steel production for the 64 countries reporting to the World Steel Association (Worldsteel) was 137.1 million tonnes (Mt) in April 2020, a 13.0 percent decrease compared to April 2019.

Due to the ongoing difficulties presented by the COVID-19 pandemic, many of this month's figures are estimates that may be revised with next month's production update.

China produced 85.0 Mt of crude steel in April 2020, an increase of 0.2 percent compared to April 2019. India produced 3.1 Mt of crude steel production in April 2020, down 65.2 percent on April 2019. Japan produced 6.6 Mt of crude steel in April 2020, down 23.5 percent on April 2019.

Production in the EU is estimated to be 10.7 Mt in April 2020, down 22.9 percent on April 2019.

The U.S. produced 5.0 Mt of crude steel in April 2020, a decrease of 32.5 percent compared to April 2019.

Production in the C.I.S. is estimated to be 6.6 Mt in April 2020, down 22.6 percent on April 2019. Ukraine produced 1.4 Mt of crude steel in April 2020, down 30.9 percent on April 2019.

Brazil produced 1.8 Mt of crude steel production in April 2020, down by 39.0 percent on April 2019.

# Steel imports down 20 percent year-to-date through April 2020

## Finished import market share YTD at 18 percent

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,773,000 net tons (NT) of steel in April 2020, including 1,309,000 NT of finished steel (up 58.2 percent and down 13.5 percent, respectively, vs. March final data).

Through the first four months of 2020, total and finished steel imports are 9,185,000 and 5,819,000 NT, down 20.3 percent and 28.2 percent, respectively, vs. the same period in 2019. Annualized total and finished steel imports in 2020 would be 27.6 and 17.5 million NT, down 1.4 percent and 17.1 percent, respectively, vs. 2019. Finished steel import market share was an estimated 21 percent in April and is estimated at 18 percent over the first four months of 2020.

Key finished steel products with a significant increase in imports in April compared to March are heavy struc-

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS					
BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
*Preliminary	MAY 2020*	APR 2020	2020 (annualized)	2019 (12 months)	% Change 2020 Annual vs. 2019
<b>SOUTH KOREA</b>	229	161	2,249	2,576	-12.7%
<b>JAPAN</b>	103	69	896	1,242	-27.9%
<b>GERMANY</b>	65	64	715	1,043	-31.5%
<b>TURKEY</b>	85	53	705	328	115.1%
<b>TAIWAN</b>	81	48	640	830	-22.9%
<b>BRAZIL</b>	44	69	611	534	14.4%
<b>SPAIN</b>	20	44	403	445	-9.4%
<b>NETHERLANDS</b>	54	37	367	550	-33.2%
<b>All Others</b>	804	768	10,956	13,504	-18.9%
<b>TOTAL</b>	<b>1,486</b>	<b>1,313</b>	<b>17,540</b>	<b>21,051</b>	<b>-16.7%</b>

tural shapes (up 57 percent), reinforcing bars (up 54 percent), sheets and strip all other metallic coatings (up 31 percent) and tin plate (up 14 percent).

In April the largest volumes of finished steel imports from offshore were from South Korea (161,000 NT, down 22 percent from March final), Brazil (69,000 NT, up 388 percent), Japan (68,000 NT, up 21 percent), Germany (64,000 NT, down 7 percent) and

Turkey (53,000 NT, up 62 percent). For the first four months of 2020, the largest offshore suppliers were South Korea (708,000 NT, down 29 percent vs. the same period in 2019), Japan (270,000 NT, down 45 percent), Germany (233,000 NT, down 49 percent), Brazil (210,000 NT, down 19 percent) and Turkey (209,000 NT, up 50 percent).

*They say opposites attract. I hope you meet someone who is good-looking, intelligent, and cultured.*

## May steel import permit applications decreased from the April numbers

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of May totaled 2,235,000 net tons (NT). This was a 25.0 percent decrease from the 2,981,000 permit tons recorded in April and a 19.4 percent decrease from the April preliminary imports total of 2,773,000. Import permit tonnage for finished steel in May was 1,514,000, up 15.7 percent from the preliminary imports total of 1,309,000 in April. For the first five months of 2020 (including May SIMA permits and April preliminary imports), total and finished steel imports were 11,421,000 NT and 7,332,000 NT, down 16.0 percent and 26.4 percent, respectively, from the same period in 2019. The estimated finished steel import market share in May was 23 percent and is 19 percent year-to-date (YTD).

Finished steel imports with large increases in May permits vs. the April preliminary imports included oil coun-

try goods (up 93 percent), standard pipe (up 33 percent), hot rolled bars (up 29 percent), line pipe (up 26 percent), tin plate (up 24 percent), mechanical tubing (up 18 percent), cut lengths plates (up 15 percent), wire rods (up 13 percent), sheets and strip all other metallic coatings (up 12 percent) and cold rolled sheets (up 11 percent). Products with significant year-to date (YTD) increases vs. the same period in 2019 include tin free steel (up 29 percent) and light shapes bars (up 18 percent).

In May, the largest finished steel import permit applications for offshore countries were for South Korea (235,000 NT, up 46 percent from April preliminary), Japan (103,000 NT, up 50 percent), Turkey (98,000 NT, up 86 percent), Taiwan (84,000 NT, up 75 percent) and Germany (72,000 NT, up 14 percent). Through the first five months of 2020, the largest offshore suppliers were South Korea (943,000 NT, down 27 percent from the same period last year), Japan (373,000 NT, down 39 percent) and Germany (305,000 NT, down 41 percent).



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# SALVAGING Millions

by Ron Sturgeon  
Autosalvageconsultant.com

## Is bigger really better?

The first article in this series listed more than 25 tactics to increase your business success, all of them based on my experience. I started with nothing and didn't attend college, so I know you can achieve maximum success, regardless of your education.

Chapter Two of my book, *How to Salvage Millions from Your Small Business*, discusses this month's topic. Bigger can be better but many times it simply isn't. First, you have to make several decisions:

•Do you really want to be bigger, with the commensurate problems?

•Are you willing to tolerate more mediocrity that will inevitably come from having more employees?

•Can you, and are you willing to, hire employees who have the skills that you may not have, like accounting, that will be necessary to get you to the next level?

•Do you have what you deem to be the appropriate mix of personal and business time, and will being bigger affect that mix?

•Will your facility and credit lines (or internally generated capital) accommodate the growth?

Many say that getting bigger will allow greater synergies that will translate into greater sales and profits. Don't believe it. Although it is possible, it's elusive at best. Getting bigger at one location is much better than acquiring another facility.

My recycling friends used to ask me how I could manage 6 locations and 140 employees, when they couldn't seem to keep up with one location. The key, at least for me, was in maintaining good operating metrics and surrounding myself with really good people. If you aren't currently gathering the metrics and studying monthly financial statements that accurately reflect true monthly income and cash flows, don't even consider getting any bigger. Many operators have accountants who don't know how to treat cost of goods and other special recycling issues to give an accurate period correct income statement.

The same friends said they couldn't hire 20 good people, much less 140. If you have weak employees, it's your fault. You either made bad hires, continued to tolerate them, or haven't provided the proper training, structure, discipline and leadership needed. Start being accountable for weak employees. You are the only one who can change this pattern.

I personally know and consult with many small yards, with \$50,000 to \$125,000 in monthly sales, which are making over 20 percent net profit. On \$1m in sales, they will make \$250,000 this year in profit. They are doing great and don't want to lose profits by getting bigger. It's not uncommon to see net margins below 10 percent in larger operations, even below 5 percent. But, 5 to 10 percent of a big number can be many more dollars than 20 percent of a small number. You will have to decide if it's worth it.

A wise friend once told me, "If inventory plays a big role in your business and being bigger doesn't reduce the inventory cost, there is no incentive to be bigger." Clearly, there is a time at which this is important and you reach a point of diminishing return. A lot of factors drive such a point, but really big, like millions per month, could easily be past that point. An operation spending millions per month on inventory is probably paying just as much as the yard buying 40 cars per month; so fifty cents of every dollar earned is spent the same way for each operation. That only leaves 50 cents to carve out a profit and a competitive edge.

The desire to get bigger is endemic to all of us, generally speaking. Boaters have "one footitis," and auto recyclers always want later model salvage.

Do what's right for you; don't get bigger just for the sake of getting bigger and don't get bigger just because your competitor is bigger. Choose your customer niche and understand your core competencies.

### Remember, only you can make BUSINESS GREAT!

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



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## BUSINESS BRIEFS

### Encina names Jacobsen as director of purchasing

■ Encina Development Group, LLC, a company that processes plastic waste to create renewable chemicals and renewable fuels, announced that Mylinda Jacobsen has joined the company as the global director of purchasing to lead the material purchasing, sourcing, and management initiatives.

Jacobsen is an international purchasing and business development expert, and relationship driver with thought leadership in the plastics recycling industry. Previously with Envision Plastics, Mylinda led the global purchasing team in raw material sourcing efforts, where she grew the supplier base, built deep scrap plastic supplier relationships, cut waste, and improved logistics efficiency. Prior to Envision, she served as the solid waste programs coordinator for the Town of Kernersville Public Works, where she created a practical, widely adopted municipal recycling program, and led other environmentally friendly initiatives such as increasing recycling rates to growing revenue.

Mylinda earned a B.A. degree from the College of Charleston and has certifications in recycling and landfill operations. She had previously served on the board of several waste and recycling industry associations.

### Industrial Service expands recycling capabilities

■ Industrial Service Solutions (ISS), a leader in nationwide field, shop and supply services for industrial equipment, has formed a new product line named Recycling Technologies. ISS' support of the recycling industry began with its acquisition of Amerimex Power Systems in 2013 and has made them one of the major suppliers of high quality, heavy duty shredder motors and drives.

To lead the new product line, ISS hired industry veteran Bill Tigner. Tigner's 30 year career includes managing recycling equipment suppliers Lindemann, Metso's recycling division, US Shredder & Castings Group, and most recently Brilix Technical Solutions.

According to ISS, its recycling operations will be based in Houston, Texas and will expand its supply from AmeriMex shredder motors to include a full line of heavy-duty scrap metal and automobile shredders, casting and wear parts, and separation technologies. Rebuilding and upgrading existing shredders and systems will also be a focus. The company has plans to expand its product lines in the near future.

ISS recycling equipment will be backed by its 23 companies with 45 locations throughout North America which already offers heavy fabrication, hydraulics and electrical control systems to many scrap processors.

*Next time a stranger talks to you when you're alone, just look at them with a shocked expression and whisper, "You can see me?"*

### Rodriguez named CEO of Global Environment Facility

■ Costa Rican Environment and Energy Minister Carlos Manuel Rodriguez has been selected as the next chief executive officer and chairperson of the Global Environment Facility, the largest multilateral trust fund supporting environmental action in developing countries and the main financing mechanism for multiple United Nations environmental conventions.

The GEF Council, meeting virtually, selected Rodriguez as the trust fund's next chief executive officer for an initial term of four years. He will succeed Naoko Ishii, who became the GEF's chief executive officer and chairperson in 2012 and served two terms marked by an expansion of the trust fund's approach to better-address environmental degradation at its root causes, including a greater focus on transformation of key economic systems that are driving climate change, deforestation, and ecological damage.

Rodriguez, who describes himself as a "lawyer by profession, politician by choice, and conservationist at heart," will be the first national from Latin America to lead the GEF when he takes office in August.

Over his three terms as Minister of Environment and Energy, Costa Rica doubled the size of its forests, made its power sector 100 percent renewable, and made the country a top ecotourism destination. Rodriguez, who also worked for 12 years at Conservation International, has been a pioneer in the development of payment for ecosystem services, ocean conservation, and de-carbonization strategies, and is a world-renowned expert on environmental policies, multilateral negotiations, and financing for nature conservation.

He joins the Washington based intergovernmental organization at a crucial time for international environmental action, in the midst of the coronavirus pandemic that has raised the urgency of addressing illegal wildlife trading and ahead of high-stakes negotiations next year regarding climate change, biodiversity, oceans and more.

### Schär named head of the global sales of Buhler

■ Samuel Schär has taken over the responsibilities as head of the global SAS organization, in addition to his current function as chief executive officer of the Advanced Materials business. This internal succession solution had been in preparation for a longer time.

Samuel Schär graduated as a physics engineer from the Swiss Federal Institute of Technology in Lausanne (EPFL) and joined Bühler in 2002. He took charge of the then newly founded nanotechnology business unit in 2005 and was later responsible for the business area grinding & dispersing. In 2013, Samuel Schär was promoted to Bühler's executive board as the chief executive officer of the Advanced Materials business.

## BUSINESS BRIEFS

### Recycling group acquires assets of Enviroplast

■ TC Transcontinental has acquired the assets of Enviroplast Inc., a company dedicated to recycling flexible plastics in the province of Québec. The equipment acquired will be used for converting plastic waste recovered from sorting facilities and other commercial, industrial and agricultural sources into recycled plastic granules.

The corporation's goal is to differentiate itself by offering eco-responsible packaging products that contain recycled plastic, to accelerate their development and to create a true circular economy of plastic. Flexible plastic packaging ensures optimal product protection, facilitates transportation and helps extend product shelf life. In addition, the Recycling Group contributes to TC Transcontinental's objectives as a signatory of the Ellen MacArthur Foundation's New Plastics Economy Global Commitment, including increasing the post-consumer recycled content across its entire portfolio of flexible plastic packaging products.

### Federation of NY Solid Waste cancels conference

■ The Federation of New York Solid Waste Associations has decided to cancel the rescheduled October 4, 2020 conference which would have been held in Bolton Landing, New York.

Based on input from attendees, the decision was made based on COVID-19 uncertainty, logistics and priority for the safety of participants.

### Chemtron Corp. acquires Vexor Technology

■ Chemtron Corporation, a portfolio company of Kinderhook Industries, has acquired Vexor Technology, LLC, a regional provider of non-hazardous waste processing services and alternative energy solutions. Financial terms of the transaction were not disclosed.

Headquartered in Avon, Ohio, Chemtron is a waste management provider in the Midwest. Chemtron's value proposition lies in its ability to provide a diverse range of disposal solutions to hazardous and non-hazardous waste generators. Through its hazardous and non-hazardous waste processing facilities, Chemtron can treat, process and direct for end disposal a diverse range of wastes on behalf of waste generators.

Founded in 1999 and headquartered in Medina, Ohio, Vexor provides waste processing services for non-hazardous liquid and solid waste along with alternative energy solutions for waste generators through their proprietary engineered fuel. Through its permitted waste processing facility, Vexor manufactures an engineered fuel from non-hazardous waste which is utilized as a substitute in combustion units where coal or natural gas are normally burned. Vexor has treatment capabilities for wastewater, providing oil and water separation received in tankers or vacuum trucks. Vexor also provides customers with landfill avoidance options through consolidation of non-hazardous waste for shipment to its network of third party waste-to-energy facilities.

### ISRI names Adina Renee Adler as VP of advocacy

■ The Institute of Scrap Recycling Industries (ISRI) has promoted Adina Renee Adler to vice president of advocacy. In her new role Adler will lead the development and implementation of association's strategy for advancing ISRI's advocacy agenda and priorities across all levels of government – state and local, federal and international – as well as with stakeholders throughout the recycling chain.

Adler previously served in the role of assistant vice president of international affairs. She joined ISRI in December of 2016 to represent the industry in international negotiations and to advocate trade-expanding opportunities for the scrap recycling industry. Prior to ISRI, Adina was director of global government affairs for Alcoa and Arconic and international government relations advisor for Shell Oil Company – both positions based in Washington – to advise business leaders on trends in U.S. trade and international policy. Adina also served in the U.S. government as director for South Asia in the Office of the United States Trade Representative (USTR) and International Trade Specialist at the U.S. Department of Commerce, both assignments responsible for U.S. commercial and trade policy with the countries of South Asia.

The role of vice president of advocacy replaces the position of vice president of government relations, previously held by the late Mark Reiter, who passed away in January of this year after a career of nearly 30 years at ISRI.

### Warren Byrd retires from KAR Auction Services

■ KAR Auction Services Inc. d/b/a KAR Global announced that long time senior executive Warren Byrd will step down from KAR Global after 23 years with the company. Byrd most recently served as EVP of corporate development and real estate at KAR for the past 10 years, overseeing all corporate development projects and real estate acquisitions within the company's portfolio, including 300 locations across North America and Europe.

During Byrd's tenure, KAR acquired more than 50 auctions and built dozens more. More recently under his direction, KAR constructed its new state-of-the-art corporate headquarters in Indiana and opened the new Adesa Chicago auction, the company's most customer focused and innovative physical auction to date.

As a graduate of Notre Dame Law School, Byrd began his career as an attorney at a law firm in Indianapolis. He joined ADESA in 1994 as general counsel and was quickly promoted to chief information officer and vice president of corporate development followed by president of ADESA Impact, a salvage auction subsidiary. Immediately prior to assuming his current role, Byrd served as EVP of corporate development at ADESA.

Over the years, Byrd has received many industry accolades including, most recently, the 2019 Remarketer of the Year awarded at the Conference of Automotive Remarketing.

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**2013 Liebherr A904** hydraulic cab, 37' reach, gen-set, newer solid tires, Liebherr rotating grapple and new paint.



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## Crumb rubber use growing in construction

by MAURA KELLER

[mkeller@americanrecycler.com](mailto:mkeller@americanrecycler.com)

Walk through a playground or play on any tennis court and you are bound to have crumb rubber underfoot. In recent years, crumb rubber from recycled tires has played a key role in the construction of jogging paths, playgrounds and tennis courts. Durable, yet impact absorbent, rubber has proven itself to be a key construction material. Recently crumb rubber has made inroads in other areas of construction, including roofing materials and floor substrates, expanding the array of recycled materials used within commercial and residential construction.

### Applications Aplenty

Chuck Naish, founder of City Residential Foundation Repair, said that from his company's experience, crumb rubber has been an asset to those in the construction industry.

"Crumb rubber can be excellent for foundation waterproofing repairs, but another one of its popular uses is rubberized asphalt pavement," Naish said. "Crumb rubber is an integral part of the wet process and the dry process in asphalt paving. There are many advantages to using crumb rubber for rubberized asphalt pavement. It reduces traffic noise, improves durability and reduces cracking."

Crumb rubber can also be used for some foundation waterproofing projects,



Rubber roofing tiles are one of the many tire-derived products available on the market today.

PHOTO BY LUKEFRANKLINIMAGES | DREAMSTIME

but the material used can really differ between projects and circumstances. "Even though effective, we prefer using a waterproof membrane called Platon, an air gap membrane, for the majority of our projects," Naish said. "It's essentially a high density polyethylene (HDPE) that can control

moisture and ensure a home's foundation stays dry, even in the heaviest of weather conditions. We find that it's slightly more reliable than crumb rubber. That being said, the use of crumb rubber has allowed the industry to utilize natural resources while improving environmental impact."

Dan Bailey, president of Wikilawn, works with commercial landscape contractors and has seen commercial landscapers making use of recycled rubber, including crumb rubber in myriad applications.

"One of our clients was working on an apartment complex with a running trail and recycled rubber was used for that. It made the project more affordable and more sustainable, as tires are a massive problem in landfills," Bailey said.

So why has crumb rubber gained an increasing amount of attention within the construction industry? Quite simply, crumb rubber is typically used for maintenance. Asphalt tends to lose

elasticity and begins to crack, but crumb rubber can be used to patch problem areas.

As Bailey explained, crumb rubber is also more durable and resistant to the elements and to wear and tear, as it's a soft, almost spongy material.

"In my experience, it's still a small percentage who advertise their use of recycled rubber, but it's grown over time and I expect it will continue to grow," Bailey said. "It's economical, which is one of the biggest steps in construction agencies adopting something. It's also plentiful, as there's never going to be a shortage of discarded tires."

And crumb rubber is increasingly being used in a variety of floor products including rolled flooring, rubber flooring underlayments, and antifatigue tiles. From indoor and outdoor applications, crumb rubber can be found in trade show flooring, gymnasiums as well as under tile, wood or synthetic

See CRUMB RUBBER, Page B2



Rubber membranes for flat roofs or for those with a slight slope are usually manufactured from EPDM rubber. EPDM refers to the following rubber types: ethylene, propylene, diene and the M refers to it's classification.

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# Rubber infill ban could be catastrophic

The BIR Tyres & Rubber Committee hosted its first eForum the day after a high level committee called for use of crumb rubber as infill for sports pitches to be prohibited.

On June 10, the European Chemicals Agency's Committee for Risk Assessment (RAC) recommended a complete ban on the use of microplastics as infill material on the grounds that information on the effectiveness of risk management measures was incomplete and that a ban would be more effective in preventing environmental releases in the long term. The ban should apply after a transition period of six years, it has been proposed.

At the eForum chaired by Max Craipeau of China based Greencore Resources Ltd., guest speaker Fazilet Cinaralp said that such a move would threaten all polymeric infill materials in this application. The secretary general of the European Tyre and Rubber Manufacturers' Association (ETRMA) went on to argue that the repercussions would be "catastrophic" if this impor-

tant market for crumb rubber were to be lost. Max Craipeau, chairman of the tire and rubber committee of BIR described the prospect as "scary".

Many studies had confirmed that crumb rubber infill presented no health risks, according to Cinaralp. "We call for fact- and science-based regulations," she said. "We have a strong fight ahead of us." Even though the recommendation was to delay the ban for six years, this would still discourage investment," she pointed out.

The RAC proposal contrasted with more positive news from Italy where ministerial approval has been granted for a decree which establishes firm criteria whereby tire-derived rubber ceases to be defined as waste and instead is categorized as a material. Giovanni Corbetta, general manager of Ecopneus, explained that the dispensation required: qualifying tires to be washed to eliminate any surface contamination; the output to be sampled in a certified laboratory; and training for all employees working in the plant to help avoid

any mistakes in fulfilling the criteria. Furthermore, uses of the final "material" were limited to those on an approved list.

Cinaralp noted that several other European countries – including Portugal, the Netherlands and Denmark – had also agreed end-of-waste criteria. With EU waste legislation currently under review, she added, "we have an opportunity to make the case for end-of-waste criteria for end-of-life tires (ELTs) where we could really harmonize them across Europe".

Gabriel Leal, general manager of Signus in Spain, confirmed that domestic tyre collections in April and May had been, respectively, 48.9 percent and 42.1 percent of their levels in the corresponding months of 2019. Volumes of ELT-derived granules and powders put on the market had been down almost 87 percent year on year in April and down 66.4 percent in May.

Des Collins of Continental AG and Flavio Piovesan of Bridgestone both highlighted the early success with a

producer responsibility scheme in Ireland, with the former explaining that it had brought greater transparency to a market which was now known to comprise around four million tires per year.

The eForum also focused on pyrolysis which, according to José Maria Bermejo of the ETRMA, accounted for less than one percent of ELT treatment within Europe. Barriers to its wider uptake included a less competitive position in relation to virgin materials and environmental issues.

In relation to carbon black, Craipeau said: "I think we are still very far from complete substitution from virgin to recycled material." However, he urged further development work around the world in order to advance the Circular Economy.

Craipeau also reiterated his plea to the European Parliament to move towards a mandatory recycled content in new rubber compounds provided that this entailed no great impact on their properties.

## Crumb rubber

■Continued from Page B1

turf. Essentially crumb rubber within flooring applications improve cushioning, provide water protection and offer acoustic insulations. Not only is crumb rubber enhanced flooring long-lasting but it also meets flammability standards for many commercial applications.

Jeff Neal, a project manager for an epoxy flooring contractor, handles a wealth of commercial and industrial projects.

"We are getting a lot of requests to add rubber crumbs to our epoxy floors," Neal said. "There are many benefits. The rubber crumbs increase the slip-resistance for floors so if you're installing a floor in a wash down area, or a bathroom, then these rubber crumbs can help improve the safety for the floors. And while sand is a good

media to use as well, rubber crumbs are more abrasion resistant than sand.

Specifically, in construction projects wet epoxy is being installed on concrete, a flooring professional can broadcast this rubber aggregate into the material. When the epoxy cures, the rubber adheres to the epoxy, and creates a very slip-resistant floor.

For flooring applications within the construction industry, crumb rubber provides texture, but also makes for an excellent impact material because it has more flexibility. "The drawback is that it isn't as strong as sand, so if you're trying to install a 1/4" epoxy floor, then you'll need to stick with sand," Neal said.

And as the "green movement" continues to take hold within the construction industry, attention has been turned to using crumb rubber in roof coatings as well as green roof systems that require a drainage layer, which offers the optimum balance between air and water. A study published in Applied

Energy, found that the use of rubber crumbs as a drainage layer in green roofs can act as an energy saving tool. The crumb rubber can be used as a substitute for stone materials that are traditionally used as the drainage layer in green roofs.

In addition, many contemporary roofing systems are using crumb rubber from recycled tires to provide technical performance attributes for flammability and moisture/vapor transfer. Construction professionals have found that adding crumb rubber to asphalt roof shingles offers improved flexibility and fatigue resistance. Infusing crumb rubber into shake rubber roofing tiles, for example, can help keep houses cooler in the summer and warmed in the winter. They also rot resistant, immune to insects, and resistant to mildew and moss.

### The Future Outlook of Crumb Rubber

In a recent report, Transparency Market Research, a global market intelligence company, which provides global business information reports and services, released a study showing that the global tire recycling downstream products market had a valuation of approximately \$4 billion in 2018. From 2019 to 2027, the global market is expected to show a moderate CAGR of ~3 percent. With this rate of growth, the new valuation of the tire recycling downstream products market will be around \$6B by the fall of 2027.

Within the types of products derived from recycled tire, the segment of rubber powder accounted for a considerable share in the global market in 2018 and is expected to continue to lead over the forecast period.

"From my experience, the crumb rubber industry continues to grow at a rapid pace and the construction industry will utilize and implement this sustainable approach within their projects," Naish said. "Fellow industry

leaders are finding ways to improve their processes and are finding new uses of this product to ensure durability, strength and quality."

## Safety of Crumb Rubber

In July 2019, the EPA, the Centers for Disease Control and Prevention/Agency for Toxic Substances and Disease Registry, and the Consumer Product Safety Commission released the first part of a report regarding the investigation into the safety of recycled crumb rubber used in playgrounds and sports playing fields.

Although only the first part of the report, the government agencies found that the levels of organic chemicals in the crumb rubber tended to be higher for indoor fields than in outdoor fields. In addition, vaporization and weathering appeared to lead to lower concentrations of many organic chemicals over time, particularly for outdoor fields, but this may have been a factor of the initial composition of the crumb rubber.

Overall, the research "supports the premise that while many chemicals are present in the recycled tire crumb rubber, exposure may be limited based on what is released into air or biological fluids," the agencies state. But the initial report emphasizes that, "The study activities completed as part of this multi-agency research effort were not designed, and are not sufficient by themselves, to directly answer questions about potential health risks."

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## Rubber made from waste becomes reality

Flinders University Associate Professor Justin Chalker has been developing materials made from waste cooking oil and sulphur for several years with other products including a polymer that can soak up oil spills and a mercury and cyanide-free method of precious metal extraction and recovery.

The latest rubber product has been developed at Flinders University Institute for Nanoscale Science and Technology's Chalker Lab in South Australia in conjunction with collaborators from the University of Liverpool, University of Western Australia and Flinders University honours student Sam Tonkin, who is the research's first author.

The rubber material is a copolymerisation of cheap and plentiful waste products; sulphur, canola cooking oil and dicyclopentadiene from petroleum refining and, unlike traditional rubber, can be completely repaired.

"The most obvious use was to have materials that can be repaired and that's quite important for rubber in particular because the vast majority of rubber that's made, not just for tires but for any use, is not recycled," he said.

Each year in Australia, more than 30 million tires, each containing about 7kg of rubber, end up in landfill, are stockpiled, illegally dumped or have an unknown fate.

The new rubber product can utilize an amine catalyst to trigger a reaction that enables the rubber to self-repair, within minutes in some cases and at room temperature.

It can also be used as a latent adhesive, where it bonds to the surface of another piece of rubber when the amine catalyst is applied. The researchers say the catalyst is stronger than many commercial glues.

Rubber bricks made out of the polymer can be chemically joined by applying the catalyst but are not adhesive without it.

Associate Professor Chalker said the rubber could be customized to almost any format and the adhesive bond was strong enough to be used as a welding replacement, where welding materials were not available.

"It just looks like normal black rubber, it is not sticky, it's very smooth, and if you put those two pieces together absolutely nothing happens," he said.

What sets this rubber apart, is the fact that it is completely recyclable, it can be ground up and then made into a different shape using the catalyst. The rubber is also resistant to water, salt and corrosion.

Although not ready for commercialization, Associate Professor Chalker said related polymers previously developed by his team were already being manufactured in South Australia.

## Michelin invests in pyrowave recycling

Pyrowave, the Montreal based clean-tech startup that has spent close to a decade developing a microwave based system that allows for the efficient chemical recycling of mixed plastics, has announced the closing of their latest round of Series B investment.

The current round of B series investment involves leading global tire manufacturer Michelin, Sofinnova Partners (a European venture capital firm) and Ecofuel, a Quebec-based early stage cleantech venture capital fund.

According to Pyrowave, this latest support marks the next phase of bringing this unique modular technology to market and providing a scalable, viable and sustainable solution in the ongoing fight against plastic waste.

Pyrowave chief executive officer Jocelyn Doucet says the support from Michelin and their capital partners is a very big step towards commercializing their technology.

"This investment marks a turning point in the circular economy of plastics, and the support from Michelin, Sofinnova and Ecofuel sends the signal that the market is ready to implement these solutions," says Doucet.

In a comment from Matthieu van der Elst, from Michelin Ventures, "This investment is a concrete illustration of our venture capital strategy which aims to support the most innovative companies, with a strong growth potential, and focusing on the relevant domains for our businesses. Alongside our current portfolio and our outstanding R&D, this investment strengthens the Michelin's position as a referent in the field of high technology sustainable materials."

Pyrowave's technology disrupts traditional mechanical plastic recycling methods by using a modular microwave-based system that allows post-consumer and post-industrial plastics to be regenerated and restored to their full value. Its patented high power microwave catalytic depolymerization technology platform is the most advanced worldwide, according to Pyrowave, and is now at the forefront of a new generation for plastics.

"Ours is a proprietary technology that uses microwaves to break polymers down to their base chemicals, which is really something different from other available technology," explains Doucet, adding that by converting plastics back to their molecular state, identical to virgin materials, it allows for infinite recycling of plastics.

"We now have the ability to recover polystyrene, our original focus, as well as polypropylene. Polyethylene will hopefully be added in the near future," continues Doucet.

According to Doucet, as a company, Michelin is dedicated to operating in the most sustainable way and supporting circular economy and clean-tech innovation in the market. Michelin's goal is to eventually use the technology for the processing of both polystyrene and styrene.

"Michelin is a big consumer of styrene to make the synthetic rubber that goes into the manufacturing of their tires," said Doucet. "They announced early last year a plan called Ambition 2048 by which they want to source 80 percent of their raw material from renewable, recycled, or bio sources."

"Our capability to make recycled styrene, a major component of one of their core products, will help Michelin in reaching this goal."

Beyond end users of plastic styrene and other monomers, such as Michelin, the benefit for recyclers, he says, is that this technology will create market demand for their product. "This is where the value proposition is for recyclers," he said. "And it means recyclers can collect and sell more material that they otherwise wouldn't take because it didn't have any market value."

"Our technology will allow recyclers and plastics material end users to take advantage of mixed plastic streams, and cheaper feedstock, more than they could formally."

*Be thankful for what you have: you'll end up having more. If you concentrate on what you don't have, you will never, ever have enough.*



## Tire recycling market 2020-2026 report published

Industrial Forecast on Tire Recycling Market: A new research report titled, 'Global Tire Recycling Market Size, Status and Forecast 2020-2026' has been added by Garner Insights to its collection of research reports. The research report analyzes the global market in terms of its size, status, forecast, trends, competitive scenario, and potential growth opportunities. The Tire Recycling Market report categorizes the global market on the basis of type, application, end-user, and region.

The novel COVID-19 pandemic has affected major operations, leading to an industrial slowdown. This report presented by Garner Insights contains a thorough analysis of the pre and post pandemic market scenarios. This report covers all the recent development and changes recorded during the COVID-19 outbreak.

The major companies included in the report are: Miami Tire Recycling Company, reRubber, L & S Tire, Tire Disposal & Recycling, Rethink Tires, Champlin Tire Recycling, Lakin Tire, New River Tire Recycling and GENAN.

The study on the global tire recycling market strives to offer significant and profound insights into the present market scenario and the emerging growth dynamics. The report on the tire recycling market also provides the market players as well as the new contenders a complete view of the market landscape. The comprehensive research will enable the established as well as the emerging players to develop their business strategies and achieve their short term and long term goals. The report presents a significant evaluation of the scope of the regions and where the key participants might find potential growth opportunities in the future.

For a direct link to a free sample copy, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

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# EQUIPMENT SPOTLIGHT

## Shears

by **MARY M. THORNTON**

maryt@americanrecycler.com

Waste rubber recycling has always been challenging as rubber isn't biodegradable and the resulting negative impact it can have on the environment is a global issue. Equipment used to process the material efficiently is helpful in cost effective options for recycling.

BCA Industries manufactures a full line of tire and rubber processing equipment, including unique shredders, conveyors, raspers, screens, cracker mills – as well as wire and fiber separation. “We are known for our portable and mobile machines but we design and build entire rubber processing plants for output of everything from primary shred to crumb rubber. We can provide the fastest sidewall cutting machines on the market, all the way to a 72” wide and 800 hp shredder for all large format tires,” explained John Neuens, director, sales and marketing.

He added that wire free rubber can be produced on a small business scale with BCA's tire to mulch system using their patented Triplus machine. It produces clean cut 3/8 to 3/4” wire free mulch from sidewalls as well as full shred, rasper and magnetic removal systems for large production of wire free materials. “The patented Triplus machine is innovative because it can effectively process uncured rub-

ber. Handling this difficult material has always been a challenge for rubber processors. The markets we serve are quite diverse and they each can have their unique challenges. I often enjoy assisting clients with their business models or locating and assisting in export processes, especially if they are near a coast. This is really where you can learn which equipment types are best suited for a customer's business area. You simply cannot ship these



BCA Industries

commodities very far, profitably. Lending our help and expertise to all of our customers commonly proves very beneficial to them. Other vendors who may offer equipment similar to ours simply do not spend the time or do not have the expertise to do the same,” commented Neuens.

Eagle International has been a global leader of equipment manufacturing in the tire recycling industry

since 1991. The company offers a wide range of products to assist scrap tire processors with equipment capable of downsizing tires as small as those for an ATV and up to giant mining tires exceeding 12' in diameter. Eagle provides equipment used to derim, debeat, bale, shear and slice tires. All equipment is rigorously tested before shipment and ready to operate upon delivery.

Rubber processing can be challenging because tires tend to flex and stretch when being cut. Eagle incorporates a guide roller on the end of the shear they manufacture, which keeps the blade secure throughout the cutting process. This results in a smooth cut and no additional clean-up of rubber pieces.

John Tejkl, global sales representative, said, “Blades used on our shears have four cutting edges – quadrupling the lifespan of the blade. All products can provide users with increased profitability for any stage of the recycling process – whether tire haulers, feedstock processors or recyclers creating a final product. Eagle constantly develops improvements and new equipment to meet customer requirements and establish new tire downsizing technology. Our downsizing products reduce tires in a more economical way, saving the processor money. Shearing tires into more manageable sizes not only reduces the necessity for more expensive shredding equipment, it also enables haulers to decrease dead space within shipments. Cut tires can be stacked together, resulting in less storage required and more efficient per-load transportation fees. Similarly, the common goal in our industry is to create a sustainable, circular economy for the benefit of our global environment. Exciting advancements and acceptance of pyrolysis/thermolysis, rubber modified asphalt, micronized rubber powder, and molded/extruded products are moving us towards bringing that goal to fruition.”

Eagle customers range from small, mom and pop tire shops needing to downsize tires for more efficient disposal to the largest tire recyclers in the world. Their equipment is built in the U.S. and they have products in 27



Eagle International

See SHEARS, Page B7

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Our full line of downsizing equipment handles greater capacities of feed-stock than our competitors – offering machines that handle car tires up to, and including, 14' OTR mining tires.

View our full line of products at [eagle-equipment.com](http://eagle-equipment.com).



## CAR TIRE DERIMMER

The Eagle Car Tire Derimmer is designed to separate waste rims from tires.

Max. Tire Cap. = 20" Wheel  
Portable or Stationary Options



## TUF-CUT

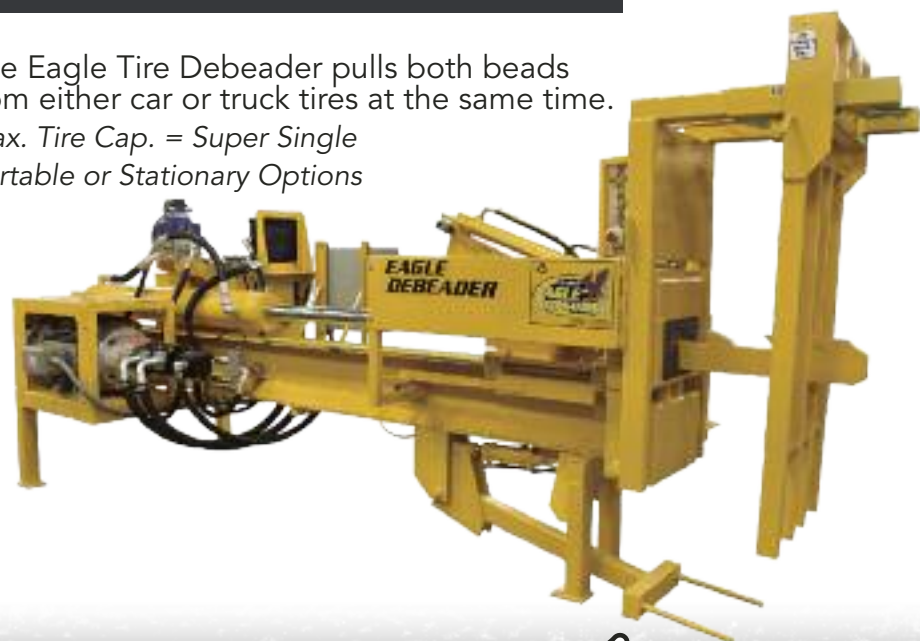
The Eagle Tuf-Cut adds flexibility to your total tire-cutting system by processing tires up to 23.5/25 into segments.

Max. Tire Cap. = 23.5R25  
Portable or Stationary Options

## TIRE DEBEADER

The Eagle Tire Debeader pulls both beads from either car or truck tires at the same time.

Max. Tire Cap. = Super Single  
Portable or Stationary Options



## 4566 BALER

Designed to compress and bale whole passenger or semi tires, the Eagle 4566 Tire Baler has a larger compression chamber to bale larger tires.

Max. Tire Cap. = Super Single  
Portable or Stationary Options



## TIRE-RECYCLING EQUIPMENT

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## NEW PRODUCT SHOWCASE



### BPS OFFERS VIBRATORY FEEDERS DESIGNED FOR TOUGH JOBS

Vibratory feeders manufactured by Best Process Solutions (BPS) are designed to smoothly convey products. Flow of material is adjustable and flow rate can be variable or fixed.

Available in electric or air operated models, BPS heavy duty vibratory feeders are designed with above, below or side mounted drives and can be arranged for base mounting or overhead suspension.

Several basic models are available including air operated light duty, air operated heavy duty, twin motor vibrating pan and grizzly feeders, electromagnetic, twin motor and special application feeders.

**Best Process Solutions**  
1071 Industrial Parkway  
Brunswick, OH 44212  
330-220-1440  
www.bpsvibes.com



### BOGE INTRODUCES NEW C-SERIES SCREW COMPRESSORS

More compact, easier to operate and quieter than ever before: Boge introduces the new generation of its screw compressors from the popular C-series.

The C-2 compressors are available as a complete solution ready for connection together with compressed air receiver and dryer, as well as in a standalone version for larger complete systems. They are compact in design and particularly maintenance-friendly and ergonomic. Fitted with a sound insulation hood as standard, the new C-2 compressors are quieter than their predecessors. Boge offers a wide range of individual configuration options.

**Boge America, Inc.**  
3414 Florence Circle  
Powder Springs, GA 30127  
770-874-1570  
www.boge.com



### DOPPSTADT RELEASES THE LATEST IN SMART SHREDDERS

Doppstadt's slow speed shredder line continues to expand. Doppstadt is launching two new models, the Inventor Type 6 and Methor, which are right in line with the company's "Smart Solutions" concept: Mobile, modular machines that can be used cost effectively and flexibly in a wide variety of areas of application and which are distinguished by low investment costs and a fast return on investment.

The Inventor Type 6 is ready to set new standards of use in the recycling industry. The Methor was completely redesigned from scratch and offers maximum flexibility when handling smaller volume flows.

**Doppstadt**  
1265 Lear Industrial Pkwy  
Avon, OH 44011  
440-937-3225  
www.doppstadt.de

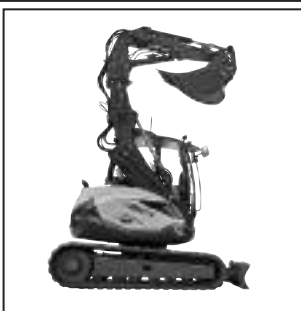


### MCCLOSKEY INTERNATIONAL UNVEILS NEW SHREDDER

McCloskey International has expanded their mobile solutions with a new product range – shredders. The McCloskey VTS95 is the first product to makes its debut for the new recycling division.

The VTS95 track shredder features an aggressive eight knife Samurai, heavy duty cutting table, multiple shredding programs and the ability to shred in both directions with full torque. It utilizes a CAT C15 403 KW (540HP) stage V/Tier 4F motor and has a fuel efficient hydraulics system, an anti jam system, a double hydrostatic drive transmission and a mounted access ladder.

**McCloskey International**  
1 McCloskey Road  
Keene, Ontario CA K9J 0G6  
705-295-4925  
www.mccloskeyinternational.com



### MECALAC INTRODUCES MCR SERIES TO MAXIMIZE EFFICIENCY

Mecalac, a global leader in the design, manufacture and distribution of compact construction equipment for urban environments, introduces its innovative line of crawler skid-excavators — the newly updated MCR series.

Comprised of 3 models, the machines provide the swiftness of a skid steer with the 360° rotation of an excavator for versatility and travel speeds 2 times faster than any small excavator. A compact footprint brings Mecalac's signature end-user-focused design to new applications and industries for increased safety, sustainability and efficiency.

**Mecalac North America**  
282 Dedham Street  
Norfolk, MA 02056  
508-921-3076  
www.mecalac.com

## Goodyear reports first quarter results significantly impacted by COVID-19

The Goodyear Tire & Rubber Company reported results for the first quarter of 2020.

"Our first quarter results were affected significantly by the sharp declines in demand in the wake of the COVID-19 pandemic," said Richard J. Kramer, chairman, chief executive officer and president. "We are taking necessary measures to ensure the health and safety of our associates and to safeguard our business, while continuing to serve our customers and support essential services," he added.

"While this unprecedented crisis continues to disrupt our business and the broader automotive industry, I am confident we will emerge from this crisis in a strong position," said Kramer. "We have taken swift actions to aggressively reduce expenses and investment levels, while at the same time continuing to focus on our strategic priorities. I would like to thank all of our associates for their hard work and dedication during this challenging period to ensure we are well positioned when the economy recovers," added Kramer.

Goodyear's first quarter 2020 sales were \$3.1 billion, down 15 percent from a year ago. The decline was driven by lower industry volume, which was significantly impacted by the COVID-19 pandemic, and unfavorable foreign currency translation. These factors were partially offset by improvements in price/mix.

Tire unit volumes totaled 31.3 million, down 18 percent from the prior year's period. Replacement tire shipments declined 16 percent, driven by a severe contraction in industry demand following shelter-in-place mandates and sharp declines in consumer confidence. Original equipment unit volume decreased 21 percent, driven by declines in OE demand after global auto manufacturers suspended vehicle production in response to COVID-19.

Goodyear's first quarter 2020 net loss was \$619 million (\$2.65 per share) compared to a net loss of \$61 million (26 cents per share) a year ago. The increase in net loss was driven by discrete tax charges, a decline in segment operating income, and a non-cash goodwill impairment charge, partially offset by lower rationalization charges.

First quarter 2020 adjusted net loss was \$140 million (\$.60 per share), compared to adjusted net income of \$45 million (\$.19 per share) in 2019. Per share amounts are diluted.

The company reported a segment operating loss of \$47 million in the first quarter of 2020, down \$237 million from a year ago. The decline primarily reflects lower volume and lower factory utilization. Segment operating income includes an unfavorable impact of approximately \$65 million due to lower factory utilization and other period costs related to suspending production at its manufacturing facilities.

## Cooper Tire & Rubber Company reports first quarter loss in 2020

Cooper Tire & Rubber Company reported a first quarter 2020 net loss of \$12 million, or diluted loss per share of \$0.23, compared with net income of \$7 million, or \$0.14 diluted earnings per share, for the same period last year.

#### First Quarter Highlights

- Unit volume decreased 15.8 percent compared to the first quarter of 2019.

- Net sales decreased 14.1 percent to \$532 million.

- Operating loss was \$6 million, or 1.2 percent of net sales, compared to operating profit of \$26 million, or 4.3 percent of net sales, in 2019.

- Operating results include approximately \$11 million of restructuring charges related to the transition at the company's now wholly owned Mexico manufacturing facility.

At the end of the first quarter, Cooper had \$433 million in unrestricted cash and cash equivalents compared with \$212 million in 2019. To maximize financial flexibility, the company drew down \$270 million on its revolving credit facilities during the quarter.

First quarter net sales were \$532 million compared with \$619 million in the first quarter of 2019, a decrease of 14.1 percent. First quarter net sales were

negatively impacted by \$98 million of lower unit volume and \$4 million of unfavorable foreign currency impact, partially offset by \$15 million of favorable price and mix. Operating loss was \$6 million compared with operating profit of \$26 million in the first quarter of 2019. Key drivers included \$30 million of higher manufacturing costs, \$18 million of lower unit volume, \$6 million of higher restructuring costs and \$2 million of higher other costs, which were partially offset by \$12 million of favorable raw material costs, \$6 million of favorable price and mix, and \$6 million lower SG&A expenses.

At the end of the first quarter, Cooper had \$433 million in unrestricted cash and cash equivalents compared with \$212 million at the end of the first quarter of 2019.

First quarter operating profit was \$10 million, or 2.3 percent of net sales, compared with \$39 million, or 7.5 percent of net sales, for the same period in 2019. Operating profit included \$14 million of lower unit volume, \$19 million of unfavorable manufacturing and \$11 million of higher restructuring costs. This was partially offset by \$10 million of favorable raw material costs and \$5 million of price and mix.

# Shears

■Continued from Page B4

countries and distributors in 14 countries.

Eldan Recycling offers standard and special tire recycling systems depending on customer requirements regarding tire input, production capacity and output size and quality. System capacities range from 1.5 – 8.0 ton/production hour. Each complete system is turnkey from start to finish, from engineering and design through to installation, start-up and training. The Eldan sales division in New York is available for spares and replacement parts.

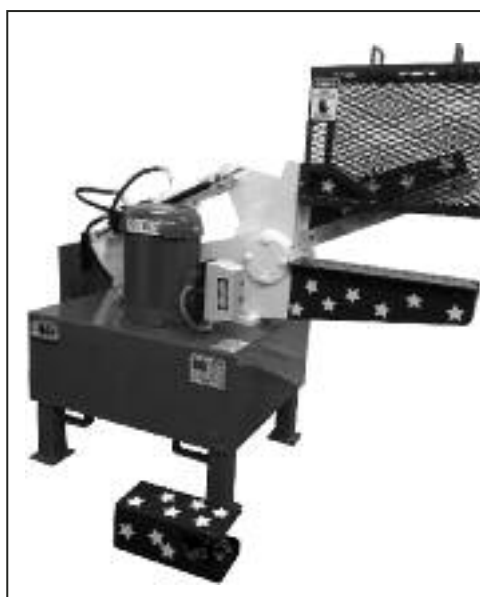
The firm's A-Line system turns whole truck and passenger tires into tire shreds (50 – 300mm). The C-Line turns whole truck and passenger tires into tire chips at the same time liberating up to 98 percent of the steel content. The D-Line turns tire shreds into a high quality rubber granulate and the E-Line does the same to whole truck and passenger tires. Granulate from Eldan tire recycling plants can be converted to ASTM D 5603-96 compliant sizes, ranging from 10 to 50 mesh, as processed by the Eldan powder plant. Powder product output from the system can be used in the asphalt industry for rubber paved asphalt. Steel liberated from rubber can be further cleaned into steel fraction which is 99 percent free from foreign material, with a heavy weight density of >700 kg/m<sup>3</sup>. "The largest European steel works regularly use recycled and further cleaned steel produced from Eldan tire recycling plants. The steel fraction can be further processed using our steel cleaning systems," said Ken Moulin, regional sales manager.

RES (Recycling Equipment Solutions) Corp, manufacturer and distributor, offers a complete line of high quality hydraulic alligator shears and a variety of power options including electric, gas and DUAL powered gas/electric motor upgrades. With a minimum of 110 tons of cutting force, RES shears easily process rubber and scrap metal and all new RES machines include a one year warranty. Replacement parts are stocked in house for the



Eldan Recycling

shortest possible down time with most items available for immediate shipping and receipt within 24 to 48 hours. All RES Corp equipment is proudly made in the U.S.A from the ground up, at their facility in Ohio.



Recycling Equipment Solutions Corp

"We offer a wide range of services, including custom made shears, skid steer shears and bobcat shears, which handle a myriad of requirements in the rubber, demolition and scrap metal recycling industries. All of our shears are multi-purpose and so can process a variety of materials. We also repair and recondition shears made by any manufacturer and we even stock replacement parts for some imported machines and shear manufacturers that are no longer in business. With over 35 years of doing business in the scrap equipment industry, our customers continue to be our best salespeople. Providing high quality machines and 100 percent satisfaction in customer service will always be our #1 goal at RES," stated Mary Gaither, sales director.

## Mexico tire plant restarts production

Cooper Tire & Rubber Company announced that its tire manufacturing plant in El Salto, Mexico began the process of restarting production on a limited basis in June.

Aligned with the company's first priority of employee health and safety, Cooper has put in place a comprehensive set of procedures that include required employee health disclosures, increased cleaning and disinfecting of facilities and equipment, social distancing and physical barriers, visitor restrictions and other measures.

Similar procedures have been in effect at Cooper plants in China, the U.S. and Serbia, all of which reopened after temporary closures, and are ramping tire production back up according to demand, which has been impacted industry wide by coronavirus.

Throughout the global pandemic, Cooper's distribution centers around the globe have continued to operate and flow product to customers.

## Champlin Tire Recycling manager is new ISRI chair

The Institute of Scrap Recycling Industries (ISRI) has elected four new national officers who will lead the association over the next two years.

In addition, the ISRI board of directors elected four directors-at-large and one associate director. At the helm of the team of new leaders is chair Gary Champlin of Champlin Tire Recycling, Concordia, Kansas.

The three other national officers are: chair-elect Brian Henesey of Rocky Mountain Recycling Inc., Commerce City, Colorado; vice chair Colin Kelly of Schnitzer Steel Industries, Everett, Massachusetts; and secretary/treasurer Andy Golding of Kripke Enterprises, Toledo, Ohio. Four directors-at-large were elected: Dan Becker, Becker Iron & Metal; Brandi Harleaux, South Post Oak Recycling Center; Joel Litman, Texas Recycling; and Steve Levetan of Pull-A-Part LLC. Ian Lewandowski of ShearCore/BladeCore, was elected as associate director.

Gary Champlin is third generation in the family tire business started by his grandfather in 1950. For the last 22 years he has been general manager of Champlin Tire Recycling, Inc. Champlin Tire Recycling is one of the top 10 largest tire processors in the U.S. Along with serving in many capacities within ISRI, he has also been a board member of Mid-America Tire Dealers (president in 2010-11), United Tire Recyclers (president since 2008), Kansas Organization of Recyclers, and the Kansas Landfill Association.

Brian Henesey is currently vice president and general manager of Rocky Mountain Recycling, Inc., (RMR) located in Commerce City, Colorado. RMR is a full service scrap metal recycling company specializing in ferrous, nonferrous and other various types of metals.

Colin Kelly is the corporate director of public affairs at Schnitzer Steel Industries, Inc. Kelly graduated with a bachelor's degree in business administration in 1984 from Suffolk University in Boston. During college he began a career in retailing with the Purity Supreme Company and in 1986 purchased his first restaurant. In the following years he added multiple locations and full line catering. He displayed an interest in community service early on and was elected to the Everett Common Council in 1989, where he served for 11 years. Since then he has contributed much of his time to community service and charitable organizations.

Andy Golding is the vice president of sales and marketing at Kripke Enterprise Inc., a role he has held since 2005. Born and raised in Toledo, Ohio, Golding graduated from The Ohio State University with a bachelor's degree in political science. He previously served as ISRI's Northern Ohio Chapter president and most recently chaired the association's 2019 and 2020 annual convention and exhibitions.



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