Independent coverage of composting, wood recycling and organics management

Composting News

March 2020

McEntee Media Market Intelligence

Volume 29 Number 1

Biochar application among algal bloom mitigation strategies

The New Jersey Department of Environmental Protection (DEP) has awarded $2.5 million in grants for nine local demonstration projects that will implement and evaluate innovative technologies to mitigate and prevent harmful algal blooms in the state.

The grants will fund a variety of projects designed to evaluate the effectiveness of various treatment and prevention technologies, including filtration systems, products to neutralize bloom-causing nutrients, high-tech oxygen bubblers, even floating wetland islands.

Two of the projects involve the application of biochar.

"Identifying new and effective ways to

(See New Jersey, page 8)

Photo: New Jersey DEP

Plant based beverage lids are compostable

World Centric said it introduced its new World Centric Leaf fiber lid collection for hot and cold cups and bowls at the 2020 International Restaurant & Foodservice Show of New York, with availability nationwide starting in March 2020.

Made from unbleached plant fiber, the new collection replaces the use of conventional, petroleum-based plastic lids to provide a truly 100 percent compostable solution for foodservice operators, the company said.

The World Centric Leaf fiber lid collection is durable, freezer safe and suitable for cold or hot items up to 220°F, including beverages such as coffee, tea and hot cocoa. The molded fiber lids are made with unbleached plant fiber sourced from rapidly renewable plants like sugarcane and bamboo and contain no petroleum

(See Lids, page 14)

USDA seeks proposals for farm conservation and soil health projects

The USDA's Natural Resources Conservation Service (NRCS) is accepting proposals through May 11 for On-Farm Conservation Innovation Trials (On-Farm Trials), now in its second year. On-Farm Trials, part of the agency's Conservation Innovation Grant (CIG) program, help support the adoption and evaluation of innovative conservation approaches on agricultural land.

"NRCS has achieved tremendous success seeking innovative technologies and approaches to enhance conservation for agricultural producers and forest landowners for nearly 20 years," said NRCS Chief Matthew Lohr. "The 2018 Farm Bill enhanced CIG by strengthening its demonstration component, allowing the agency to work

(See Soil, page 5)

Highlights

n **Two states look at human composting**

n **National compost prices**

Legislation / Regulation

EPA updates PFAS Action Plan

The U.S. EPA said it has made significant progress under its PFAS Action Plan over the past year to help states and local communities address per- and polyfluoroalkyl substances (PFAS).

EPA Administrator Andrew Wheeler said the agency's efforts under the PFAS Action Plan over the past year represent the first time in EPA's 50-year history that it has tapped all of its program offices to address an emerging contaminant of concern like PFAS, and our EPA staff efforts have been unprecedented.

"As we look to the future, we are committed to working diligently with our federal, state, local and tribal partners as we continue to make progress on this important public health issue," Wheeler said.

The latest update details the actions EPA has taken on its coordinated approach that was outlined in the February 2019 PFAS Action Plan.

EPA said key highlights from the past year include:

• On February 20, 2020, EPA issued preliminary determinations to regulate PFOA and PFOS in drinking water.

• On February 20, 2020, EPA issued a supplemental proposal to ensure that new uses of certain persistent long-chain PFAS chemicals in surface coatings cannot be manufactured or imported into the United States without notification and review under TSCA.

• On December 19, 2019, EPA accomplished a key milestone in the PFAS Action Plan by publishing a new validated method to accurately test for 11 additional PFAS in drinking water bringing the total to 29 PFAS.

• On December 19, 2019, EPA issued Interim Recommendations for Addressing Groundwater Contaminated with PFOA and PFOS, which provide guidance for federal cleanup programs (e.g., the Comprehensive Environmental Response, Compensation and Liability Act and the Resource Conservation and Recovery Act) that will also be helpful to states and tribes.

• On November 22, 2019, EPA announced availability of $4.8 million in funding for new research on managing PFAS in agriculture.

• On November 25, 2019, EPA issued an advanced notice of rulemaking that would allow the public to provide input on adding PFAS to the Toxics Release Inventory toxic chemical list.

PFAS are a large group of man-made chemicals used in consumer products and industrial processes. In use since the 1940s, PFAS are resistant to heat,

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oils, stains, grease and water—properties which contribute to their persistence in the environment. EPA said its PFAS Action Plan is the first multi-media, multi-program, national research, management and risk communication plan to address a challenge like PFAS. The plan responds to the extensive public input the agency received during the PFAS National Leadership Summit, multiple community engagements and through the public docket. The PFAS Action Plan outlines the tools EPA is developing to assist states, tribes and communities in addressing PFAS.

New York bill proposes human composting

Legislation introduced into the New York Senate and Assembly make the state the fourth in the U.S. to consider composting of human remains.

The New York bills prompted a Memorandum of Opposition from the New York State Catholic Conference.

Assembly Bill 9839 and Senate Bill 7822 provides for the creation, operation and duties of natural "organic reduction" facilities as cemetery corporations for the contained, accelerated conversion of human remains to soil.

Human composting is legal in Washington State and it is being considered in Colorado and California.

Like crematories, organic reduction facilities in New York would be subject to inspections and regulations of the state's Division of Cemeteries. The facilities would have to be maintained in a clean, orderly and sanitary manner with adequate ventilation with a temporary storage area available to store the remains of deceased human beings pending disposition by natural organic reduction.

The natural organic would be

(See New York, page 4)

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9815 Hazelwood Avenue
Cleveland, OH 44149-2305
Phone: 440.238.6603
Fax: 440.238.6712
www.compostingnews.com
Facebook: CompostingNews
Twitter: CompostingNews

Publisher/Editor:
Ken McEntee
ken@compostingnews.com
Office Manager:
Amy McEntee

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Legislation / Regulation

New York

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conducted in privacy with only authorized persons being admitted into the reduction area. An authorization form would need to disclose that a body to be reduced does not contain a battery, battery pack, power cell, radioactive implant or radioactive device.

Upon the completion of the natural organic reduction of the remains of a deceased human being, the contents would be placed into an individual container. The incidental and foreign material of the natural organic reduction process would be disposed of in a safe manner in compliance with all sanitary rules and regulations as byproducts.

Remains would be disposed of by scattering them in a designated scattering garden or area in a cemetery or by placing them in a grave, crypt or niche.

The New York State Catholic Conference opposes the bill.

"The church's reverence for the sacredness of the human body and its dignity arises out of concern for both the body's natural and supernatural properties," the conference said in its Memorandum of Opposition. "It is therefore essential that the body of a deceased person be treated with reverence and respect. A process whereby the 'remains shall be pulverized until no single fragment is recognizable as skeletal tissue' thereby 'naturally converting human remains to soil' to be scattered "in a designated scattering garden or area in a cemetery' fails to sufficiently respect the dignity due the deceased. We understand that not everyone shares the Catholic church's teachings with regard to the reverence and respect for human remains, but we do not think the public, or at least the portion of the public that visits their deceased loved ones in cemeteries, are prepared for this proposed composting/fertilizing method. We believe that in approving and promoting 'environmentally sustainable' measures (sponsor's memorandum), this state must take care to protect and preserve basic human dignity and respect."

AB9839 was introduced on February 20 by Asm. Amy Paulin (D) and seven democrat co-sponsors, and passed the Assembly Corporations, Authorities and Commissions Committee by a vote of 22-3, with one abstention. It was then referred to the Codes Committee.

Human composting bill introduced in California

Legislation introduced into the California Assembly last month would allow the composting of human remains.

The introduction of AB 2592, by

Assembly Member Cristina Garcia makes California the third state in the U.S. to consider human composting legislation. Washington passed a law last April to allow the practice, and Colorado is considering similar legislation.

California's AB2592 would require California's Cemetery and Funeral Bureau within the Department of Consumer Affairs, to license and regulate "reduction facilities," as defined, and would enact requirements applicable to "reduction facilities" substantially similar to those applicable to crematoria and hydrolysis facilities.

Reduction facilities are facilities that reduce the remains of a human body to soil through a process of contained, accelerated conversion. A reduction chamber is an enclosed space within which individual human remains are reduced to soil through an accelerated natural process of conversion and any other attached, nonenclosed, mechanical components that are necessary for the safe and proper functioning of the equipment.

The bill was introduced on February 20 and was read one time by the assembly. Garcia was the bill's only sponsor at the time of this posting.

In Colorado, HB 1060, titled Natural Organic Reduction Human Remains, was introduced by Rep. Brianna Titone in January. The bill was referred to the Committee of the Whole on February 14.

"This service embodies the spirit of Colorado's way of life," Titone said. "In addition to freedom of choice for consumers and a positive environmental impact, Natural Organic Reduction will also benefit Colorado by bringing in a new, unique business opportunity that complements the state's entrepreneurial nature."

She said Natural Organic Reduction offers an additional choice for after-death care that is natural and sustainable. With significant savings in carbon emissions and land usage, it addresses increasing demand for green alternatives:

Colorado has one of the highest cremation rates in the U.S. at 73.6 percent. Cremation requires fossil fuels and emits CO_2 into the atmosphere, polluting and contributing to climate change, according to Recompose.

Natural Organic Reduction uses one eighth the energy of cremation and saves more than a metric ton of CO_2 per person, Recompose said.

If every Colorado resident chose Natural Organic Reduction as his or her after-death preference, we would save nearly a half million metric tons of CO_2 in 10 years, Recompose said.

Agriculture

Soil

From page 1

with producers and partners to discover new conservation approaches and tools or enhance existing ones."

NRCS will invest up to $25 million on On-Farm Trials in 2020. This total

(See Soil, page 8)

National Compost Prices

The prices listed below are intended to indicate the value of mature compost products sold by compost producers and retailers in noted regions. Prices listed are based on surveys and publicly posted prices.

Your input on published prices is encouraged. Contact Ken McEntee, editor, at (440) 238-6603. Fax: (440) 238-6712. EMail: ken@recycle.cc. Address: 9815 Hazelwood Avenue, Cleveland, OH 44149. Notes on listings.

• Each listing includes a high price obtained, a low price obtained and an average of all prices obtained within a particular market.

• Market areas: Thirteen market areas have been targeted to provide a cross section of compost product markets in the U.S. Where regions are not identified by a specific city, "Chesapeake" refers to the region stretching between Norfolk, Va. to Baltimore, Md. "Texas" incorporates several major cities in the state. "Northwest" represents the Seattle and Portland, Ore areas. "SF-Bay" refers to the San Francisco Bay area. SoCal is Southern California, including the Los Angeles and San Diego areas. Denver includes Colorado, Wyoming and Montana.

• "Food waste" compost: This category refers to compost products that include food waste, regional specialities and other feedstocks not specifically covered in other categories.

• Manures: Chicken manures may include other poultry manures, such as turkey and duck manure. Cow manures may include manures marketed as steer and dairy manure. Horse manure is included in this category as well.

• Absence of a regional listing within a given category indicates not enough information for a valid listing. Additional data will be added as more information is obtained.

• Bulk retail prices do not include municipal operations that give compost away for free.

Bulk Retail (yard)

Yard waste compost	Average	High	Low
NE	$ 32.55	$ 77.00	$ 17.50
Chesapeake	$ 24.50	$ 30.00	$ 17.00
SE	$ 21.88	$ 29.95	$ 16.00
Florida	$ 16.42	$ 26.00	$ 10.50
Cleveland	$ 19.90	$ 28.00	$ 12.50
Iowa	$ 21.57	$ 53.00	$ 7.50
Minneapolis	$ 17.09	$ 28.00	$ 8.00
Texas	$ 29.71	$ 40.00	$ 15.00
Denver	$ 20.31	$ 31.00	$ 12.00
Northwest	$ 24.05	$ 55.00	$ 10.00
SF-Bay	$ 21.92	$ 30.00	$ 10.00
SoCal	$ 14.75	$ 24.00	$ 8.00

Food waste compost	Average	High	Low
NE	$ 39.12	$ 64.00	$ 17.50
Chesapeake	$ 23.00	$ 30.00	$ 15.00
SE	$ 28.11	$ 35.00	$ 24.00
Florida	$ 17.50	$ 22.00	$ 13.00
Iowa	$ 25.00	$ 65.00	$ 15.00
Minneapolis	$ 12.33	$ 16.00	$ 9.00
Texas	$ 30.21	$ 48.95	$ 15.00
Denver	$ 15.00	$ 15.00	$ 15.00
Northwest	$ 20.55	$ 30.00	$ 15.00
SF-Bay	$ 23.61	$ 38.00	$ 14.00
SoCal	$ 30.50	$ 45.00	$ 16.00

Leaf humus	Average	High	Low
NE	$ 24.98	$ 30.00	$ 19.95
Chesapeake	$ 27.49	$ 30.00	$ 23.95
Cleveland	$ 19.27	$ 26.00	$ 8.00

Composted biosolids	Average	High	Low
NE	$ 30.00	$ 40.00	$ 20.00
Chesapeake	$ 24.98	$ 35.00	$ 12.00
SE	$ 12.14	$ 28.00	$ 4.00
Florida	$ 13.14	$ 22.00	$ 8.00
Cleveland	$ 24.77	$ 30.00	$ 19.50
Iowa	$ 12.67	$ 21.00	$ 8.00
Texas	$ 21.28	$ 30.00	$ 10.00
Denver	$ 9.00	$ 10.00	$ 7.00
Northwest	$ 17.91	$ 26.00	$ 7.00
SoCal	$ 13.36	$ 22.00	$ 3.50

Composted chicken manure	Average	High	Low
NE	$ 45.00	$ 50.00	$ 40.00
Chesapeake	$ 25.00	$ 25.00	$ 25.00
SE	$ 42.00	$ 42.00	$ 42.00
Minneapolis	$ 17.00	$ 17.00	$ 17.00
Texas	$ 37.23	$ 47.50	$ 26.95
Denver	$ 25.65	$ 28.00	$ 24.00
SF-Bay	$ 16.00	$ 16.00	$ 16.00
SoCal	$ 44.00	$ 75.00	$ 27.00

Composted cow manure	Average	High	Low
NE	$ 45.50	$ 46.00	$ 45.00
SE	$ 31.33	$ 45.00	$ 12.00
Cleveland	$ 24.00	$ 24.00	$ 24.00
Iowa	$ 42.00	$ 60.00	$ 16.00
Minneapolis	$ 29.33	$ 32.00	$ 26.00
Texas	$ 29.33	$ 47.50	$ 15.00
Denver	$ 21.71	$ 30.00	$ 12.00
Phoenix	$ 20.00	$ 20.00	$ 20.00
Northwest	$ 23.85	$ 33.75	$ 17.45
SF-Bay	$ 26.00	$ 26.00	$ 26.00
SoCal	$ 17.25	$ 24.00	$ 12.00

Wood waste mulch	Average	High	Low
NE	$ 21.35	$ 38.00	$ 12.50
Chesapeake	$ 21.13	$ 28.00	$ 12.00
SE	$ 18.78	$ 34.95	$ 12.00
Florida	$ 17.50	$ 18.00	$ 17.00
Cleveland	$ 25.56	$ 36.25	$ 14.00
Iowa	$ 32.50	$ 40.00	$ 25.00
Minneapolis	$ 26.00	$ 35.00	$ 20.00
Texas	$ 16.19	$ 27.00	$ 9.00
Denver	$ 18.74	$ 25.00	$ 12.48
Phoenix	$ 17.61	$ 22.95	$ 10.00
Northwest	$ 19.00	$ 35.00	$ 7.50
SF-Bay	$ 18.14	$ 30.00	$ 8.00
SoCal	$ 20.50	$ 50.00	$ 6.00

Colored wood mulch	Average	High	Low
NE	$ 28.00	$ 28.00	$ 28.00
Chesapeake	$ 28.67	$ 33.00	$ 25.00
SE	$ 27.13	$ 42.00	$ 15.00
Florida	$ 20.33	$ 22.00	$ 19.00
Cleveland	$ 24.87	$ 28.99	$ 21.95
Iowa	$ 30.00	$ 30.00	$ 30.00
Minneapolis	$ 36.80	$ 49.00	$ 30.00
Texas	$ 26.08	$ 32.50	$ 18.00
Denver	$ 33.28	$ 33.28	$ 33.28
Northwest	$ 35.00	$ 35.00	$ 35.00
SF-Bay	$ 34.00	$ 36.00	$ 28.00
SoCal	$ 32.50	$ 35.00	$ 30.00

Bulk wholesale (yard)

Yard waste compost	Average	High	Low
NE	$ 21.50	$ 48.00	$ 11.00
Chesapeake	$ 13.39	$ 16.00	$ 8.00
SE	$ 16.66	$ 25.00	$ 8.65
Florida	$ 9.75	$ 13.00	$ 8.00
Cleveland	$ 12.50	$ 15.00	$ 10.00
Iowa	$ 14.00	$ 19.00	$ 8.00
Minneapolis	$ 12.00	$ 17.00	$ 7.00
Texas	$ 17.25	$ 24.00	$ 9.00
Denver	$ 13.05	$ 14.10	$ 12.00
Northwest	$ 14.79	$ 35.00	$ 7.50
SF-Bay	$ 13.71	$ 22.00	$ 7.00
SoCal	$ 7.33	$ 10.00	$ 6.00

Food waste compost	Average	High	Low
NE	$ 25.79	$ 48.00	$ 11.00
Chesapeake	$ 10.50	$ 15.00	$ 8.00
SE	$ 20.65	$ 30.00	$ 15.00
Florida	$ 10.50	$ 13.00	$ 8.00
Iowa	$ 13.40	$ 20.00	$ 10.00
Minneapolis	$ 12.00	$ 12.00	$ 12.00
Texas	$ 17.50	$ 24.00	$ 8.50
Denver	$ 11.33	$ 15.00	$ 7.00
Northwest	$ 17.25	$ 20.00	$ 15.00
SF-Bay	$ 12.67	$ 26.00	$ 5.00

Composted biosolids	Average	High	Low
NE	$ 15.33	$ 20.00	$ 10.00
Chesapeake	$ 9.31	$ 15.00	$ 5.00
SE	$ 10.93	$ 15.00	$ 5.00
Florida	$ 10.50	$ 13.00	$ 8.00
Texas	$ 15.99	$ 20.00	$ 9.00
Denver	$ 13.00	$ 13.00	$ 13.00
Northwest	$ 16.75	$ 21.00	$ 12.00
SoCal	$ 10.50	$ 17.00	$ 3.00

Composted cow manure	Average	High	Low
NE	$ 36.00	$ 36.00	$ 36.00
SE	$ 21.38	$ 31.50	$ 7.00
Iowa	$ 35.00	$ 35.00	$ 35.00
Texas	$ 25.00	$ 25.00	$ 25.00
Denver	$ 12.05	$ 14.10	$ 10.00
Northwest	$ 22.00	$ 22.00	$ 22.00
SF-Bay	$ 34.25	$ 34.50	$ 34.00
SoCal	$ 5.00	$ 6.00	$ 4.00

Wood waste mulch	Average	High	Low
NE	$ 15.75	$ 33.00	$ 8.00
Chesapeake	$ 15.80	$ 17.00	$ 13.00
SE	$ 14.60	$ 24.95	$ 5.00
Florida	$ 14.00	$ 15.00	$ 13.00
Iowa	$ 30.00	$ 40.00	$ 20.00
Minneapolis	$ 18.50	$ 20.00	$ 17.00
Texas	$ 10.83	$ 14.00	$ 8.00
Denver	$ 7.66	$ 8.32	$ 7.00
Northwest	$ 15.00	$ 15.00	$ 15.00
SF-Bay	$ 12.33	$ 14.00	$ 9.00
SoCal	$ 9.25	$ 15.00	$ 5.00

Colored wood mulch	Average	High	Low
NE	$ 22.00	$ 22.00	$ 22.00
Chesapeake	$ 20.50	$ 22.00	$ 19.00
SE	$ 19.00	$ 25.00	$ 15.00
Florida	$ 16.00	$ 16.00	$ 16.00
Iowa	$ 25.00	$ 25.00	$ 25.00
Minneapolis	$ 27.00	$ 35.00	$ 19.00
Texas	$ 20.67	$ 24.00	$ 18.00
Denver	$ 17.66	$ 21.32	$ 14.00
Northwest	$ 22.00	$ 22.00	$ 22.00
SF-Bay	$ 21.00	$ 22.00	$ 19.00
SoCal	$ 22.50	$ 25.00	$ 20.00

Bag Retail

Compost (40# bag)	Average	High	Low
NE	$ 6.87	$ 8.00	$ 4.50
Chesapeake	$ 3.73	$ 5.49	$ 2.15
SE	$ 4.00	$ 4.00	$ 4.00
lorida	$ 1.99	$ 1.99	$ 1.99
Cleveland	$ 2.45	$ 2.99	$ 2.10
Iowa	$ 3.12	$ 7.99	$ 1.50
Texas	$ 4.25	$ 6.99	$ 1.99
Denver	$ 3.59	$ 4.75	$ 1.73
Phoenix	$ 4.71	$ 5.99	$ 2.77
Northwest	$ 4.29	$ 5.99	$ 2.99
SoCal	$ 5.39	$ 6.25	$ 3.90
Composted cow manure(40#bag)	**Average**	**High**	**Low**
NE	$ 6.53	$ 9.87	$ 3.85
Chesapeake	$ 5.97	$ 7.95	$ 3.99
SE	$ 5.16	$ 6.97	$ 3.34
Florida	$ 1.98	$ 1.99	$ 1.97
Cleveland	$ 3.27	$ 3.99	$ 2.49
Iowa	$ 2.18	$ 2.49	$ 1.75
Minneapolis	$ 3.70	$ 7.00	$ 1.99
Texas	$ 4.59	$ 6.99	$ 1.99
Phoenix	$ 2.99	$ 3.99	$ 2.49
Northwest	$ 3.99	$ 3.99	$ 3.99
SF-Bay	$ 7.00	$ 7.00	$ 7.00

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ASTE NASDAQ LISTED

Agriculture

Soil

From page 5

includes up to $10 million for the Soil Health Demonstration Trials (SHD) priority.

On-Farm Trials funding is designed to offer, through partners, technical and financial assistance to producers to help compensate for any risks associated with implementation of new conservation practices, systems and approaches. In addition, the trials require evaluation of the innovative conservation practices, systems and approaches at the farm level, including environmental, financial and social, (to the extent possible) impacts of carrying them out.

NRCS is seeking proposals that address at least one of the following four On-Farm Trial main priorities:

• Irrigation Management Technologies;
• Precision Agriculture Technologies and Strategies;
• Management Technologies and Strategies; and
• Soil Health Demonstration Trials.

NRCS will accept proposals from the following eligible entities:

•Private entities whose primary business is related to agriculture;
• Non-government organizations with experience working with agricultural producers; and
• Non-federal government agencies.

This is the second funding opportunity for On-Farm Trials, authorized through the 2018 Farm Bill. In 2019, NRCS funded 16 On-Farm Trials projects.

The On-Farm Trials component is distinct from the national CIG competitive grants funding, which is used to support early pilot projects or demonstrations of promising conservation approaches and technologies and is not typically provided directly to producers.

Visit the grants.gov website and view the On-Farms Trials funding announcement for more information.

Biochar

New Jersey

From page 5

address the growing number of occurrences of harmful algal blooms is a public health and environmental priority for the Murphy Administration," said DEP Commissioner Catherine R. McCabe. "We are eager to evaluate these technologies and strategies, then share what we learn with communities across the state so that we can better prevent and mitigate these events."

This grant program is part of the state's comprehensive $13.5 million plan to mitigate and prevent harmful algal blooms, which affected 39 water bodies last year, including two of the state's largest lakes – northern New Jersey's Lake Hopatcong and Greenwood Lake.

While the projects represent short-term actions, it is unlikely that they alone

(See New Jersey, page 8)

Product/Equipment and Services Guide

Featuring the industry's leading vendors. This listing of the industry's leading vendors of products, equipment and services essential to the compost manufacturing, wood recycling and organics management business also is available online at compostingnews.com. Scan the QR code with your mobile device to go there. If your business is not listed, please contact ken@compostingnews.com.

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Tower Road
University Park, PA 16802
Phone: 814.863.0841
Fax: 814.863.4540
YouTube: PennStateAgSciences
Twitter: agsciences
Facebook: agsciences
Contact: Jamie Klaue
aaslab@psu.edu

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Watsonville, CA 95076
Phone: 831.724.5422
Twitter: Controllabs
Contact: Assaf Sadeh
asadeh@controllabs.com

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Watsonville, CA 95076
Phone: 831.724.5422
Twitter: Controllabs
Contact: Assaf Sadeh
asadeh@controllabs.com

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Phone: 320.548.3586
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YouTube: rotochoppervideos
Twitter:rotochopper
Facebook: Rotochopper
Contact: Nicole Klein
info@rotochopper.com

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www.ag-bagfs.com
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Astoria, OR 97103-6656
Phone: 503.325.2970
Fax: 503.325.2985
Facebook: ag-bag Forage Solutions
Contact: Debbie Linder
dlinder@ag-bagfs.com

Mulch Coloring Systems

Bandit Industries, Inc.
www.banditchippers.com
6750 Millbrook Road
Remus, MI 49340
Phone: 989.561.2270,
Phone: 800.952.0178
Fax: 989.561.2273
YouTube: banditchippers
Twitter: banditchippers
Facebook: banditiindustries
Contact: Regional Sales Manager
sales@banditchippers.com

BASF/ Colorbiotics
www.colorbiotics.basf.us
1725 Dayton Avenue, PO Box 647
Ames, IA 50010
Phone: 888-663-6980
YouTube: colorbiotics
Twitter: Colorbiotics
Contact: Nick Lincoln
nick.lincoln@BASF.com

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Featuring the industry's leading vendors

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Contact: Regional Sales Mgr.
sales@banditchippers.com

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Contact: Rick Cohen
rick@grindercrusherscreen.com

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Fax: 720.890.5907
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Contact: Brandon Lapsys
b.lapsys@komptechamericas.com

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rick@screenusa.net

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Contact: Scott Haynes
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rick@grindercrusherscreen.com

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Facebook: HogZilla Monster Grinders
Contact: Brian Bergman
sales@armorhog.com

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Contact: Jason Haug
sales@dynahog.com

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Twitter: GCS_Equipment
Facebook:GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrusherscreen.com

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Contact: Tim Wenger, VP, Sales Mgr.
hogzilla@cwmill.com

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info@midwestbiosystems.com

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www.brownbearcorp.com
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Corning, IA 50841
Phone: 641.322.4220
Fax: 641.322.3527
YouTube: Brown Bear Corp
Contact: Stan Brown
sales@brownbearcorp.com

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www.hclmachineworks.com
15142 Merrill Ave.
Dos Palos, CA 93620
Phone: 209.392.6103
Fax: 209.392.3000
Facebook: hclmachineworks
Contact: Sherrill Campbell
Contact: Casey Campbell
sales@hclmachineworks.com

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www.komptechamericas.com
6345 Downing Street
Denver, CO 80216
Ph: 720.890.9090
Fax: 720.890.5907
YouTube: Komptech Americas
Twitter: komptechamericas
Facebook: komptechamericasllc
Contact: Brandon Lapsys
b.lapsys@komptechamericas.com

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www.scarabmfg.com
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White Deer, TX 79097
Phone: 806.883.7621
Fax: 806.883.6804
YouTube: Scarab Manufacturing
Twitter: Scarabmfg
Facebook: Scarab International, LLLP
Contact: Richard Miller
info@scarabmfg.com

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www.diamondz.com
11299 Bass Lane
Caldwell, ID 83605
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Fax: 208.585.2112
YouTube: Diamond Z
Contact: Kevin Mayhugh
kevin.mayhugh@rulesteel.com

DuraTech Industries
www.duratechindustries.net
Box 1940
Jamestown, ND 58401
Phone: 701.252.4601
Fax: 701.252.0502
YouTube: Duratechindustries
Contact: Bob Strahm
ind.sales@duratechindustries.net

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Fax: 770.433.2669
YouTube: GrinderCrusherScreen
Twitter: GCS_Equipment
Facebook:GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrusherscreen.com

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b.lapsys@komptechamericas.com

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Contact: Nicole Klein
info@rotochopper.com

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Salem, OR 97304
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Fax: 503.364.1398
YouTube: West Salem Machinery
Facebook: West Salem Machinery
Twitter: West Salem Machinery
Contact: Scott Haynes
info@westsalem.com

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www.duratechindustries.net
Box 1940
Jamestown, ND 58401
Phone: 701.252.4601
Fax: 701.252.0502
YouTube: Duratechindustries
Contact: Bob Strahm
ind.sales@duratechindustries.net

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Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
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rick@grindercrusherscreen.com

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dzehnder@agrisolutionscorp.com

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Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
YouTube: GrinderCrusherScreen
Twitter: GCS_Equipment
Facebook:GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrusherscreen.com

Biochar

New Jersey

From page 8

will prevent the recurrence of harmful algal blooms. Long-term prevention will require years of efforts at the state and local levels to reduce the flow of nutrients into waterways, including increased public awareness of reducing the use of fertilizers and proper maintenance of septic systems, DEP said.

Harmful algal blooms are potentially harmful to people and pets. Naturally occurring in lakes and ponds, the algae-like bacteria that causes these blooms can proliferate to unsafe levels under certain conditions, including warm weather, stagnant waters and sunshine. Many of the funded projects are designed to address excessive levels of nutrients that exacerbate harmful algal blooms. These nutrients come from stormwater runoff containing fertilizers and animal wastes as well as from improperly operating septic systems.

Grants have been awarded for the following projects:

• Lake Hopatcong Commission, $500,000, for a 24-month project including nutrient reduction, direct treatment and habitat modification. The project will include evaluation of filtering media in two stormwater basins, three types of aerators, a product that inactivates the bacteria, treatment with non-copper algaecide, application of a charcoal-like biomass substance known as biochar to remove nutrients from near-shore waters, and the consideration and/or installation of rain gardens.

• New Jersey Water Supply Authority, $115,600, for a 36-month project to protect public health by reducing the intensity and duration of harmful algal blooms at its Spruce Run Reservoir in Hunterdon County through the installation of a biochar system to reduce nutrients entering the reservoir from the Mulhockaway Creek watershed. The project also involves stream and stormwater basin monitoring as part of an effort to determine if biochar can be effective on a more widespread basis.

• Lake Mohawk Country Club/Lake Mohawk Preservation, $160,920, for a 24-month project to demonstrate the effectiveness of non-copper algaecides and phosphorous inactivators, building upon some 30 years of work they've done to maintain water quality.

• Mercer County Park Commission, $185,000, for a 26-month project for Rosedale Lake, including installation of an aeration device, use of barley bales to filter stormwater runoff and floating wetlands islands.

• Greenwood Lake Commission, $52,800, for evaluations of ongoing strategies and best management practices to address nutrient input from Belcher Creek, which the commission has identified as a significant contributor to nutrients in the lake. This work will include collection of data for the proper sizing and location of a nutrient treatment system on Belcher Creek and installation of floating wetlands islands to absorb phosphorous.

• City of Newark Department of Water and Sewer Utilities, $475,000, for a 36-month project to prevent harmful algal blooms in reservoirs serving its Pequannock Water Treatment Plant. The city plans to use ultrasonic devices to disrupt the photosynthesis of bacteria. The primary focus of the project will be Echo Lake in Passaic County, with the ability to deploy additional units to other reservoirs.

• Mount Olive Township, $365,000, for a 36-month project to reduce nutrient loadings to Budd Lake through additional mechanical controls of excessive aquatic weeds. The township also will evaluate herbicide treatment of blooms and monitor water quality for early signs for possible herbicide treatment.

• New Jersey Institute of Technology, $500,000, for installation and evaluation of floating mobile platforms in Branch Brook Lake in Essex County and Deal Lake in Monmouth County with micro-nano bubble generators. These machines pump microscopic bubbles into the water column to improve dissolved oxygen. The 36-month project will also include development of a long-term harmful algal bloom strategy for Branch Brook Lake.

• Borough of Hopatcong, $145,680, for a 12-month project to demonstrate the effectiveness of bottom-diffused aeration and prevention of harmful algal blooms at Crescent Cove in Lake Hopatcong. The aeration system will be installed along the entire length of the cove, beginning at the River Styx Bridge.

Grants were awarded to those projects deemed ready to be implemented by the upcoming summer season and likely to have successful results. Each of the grant recipients is providing a third of total project costs as a match. The match may be made through funding and/or in-kind services. Eligible in-kind services include costs associated with short-term operation and maintenance of the demonstration project.

As part of the broader strategy to better manage blooms, the DEP has issued a draft *Intended Use Plan* that earmarks

(See New Jersey, page 14)

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Biochar

New Jersey

From page 13

$10 million in Clean Water State Revolving Fund money as principal-forgiveness (grant-like) funding for projects that improve water quality, such as centralized wastewater collection to replace septic systems. The DEP is encouraging interested potential applicants, primarily local and county government agencies, to apply for funding available through this program as soon as possible.

In addition, the DEP is currently reviewing applications for $1 million in funding from the nonpoint source pollution grant program for watershed planning to address harmful algal blooms by reducing nutrients in stormwater.

DEP said harmful algal blooms are not caused by true algae. Rather, they are caused by naturally occurring cyanobacteria that can reproduce to unhealthful levels under certain conditions, including sunlight, nutrients from sources such as fertilizers and improperly operating septic systems, warm weather and stagnant water. They frequently form dense mats, resembling pea soup or spilled paint.

Exposure to blooms can result in a range of health effects, including rashes, allergy-like reactions, flu-like symptoms, gastroenteritis, respiratory irritation and eye irritation. Exposure to a bloom that is actively producing cyanotoxins may result in more serious health effects, including liver toxicity and neurological effects. People, pets and wildlife are susceptible to adverse health effects if they come into contact with or ingest water where a bloom is occurring. Consequently, blooms can result in closures of swimming beaches as well as recreational-use advisories.

In 2017, the DEP launched a comprehensive strategy to better monitor and respond to harmful algal blooms. Under this strategy, the DEP is committed to providing assistance to support local governments in efforts to mitigate and prevent these blooms.

More information about the projects can be found at www.nj.gov/dep/wms/bears/npsrestgrants.html.

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Compostables

Lids

From page 1

plastics, requiring less energy to manufacture compared to the typical polystyrene coffee lid.

The lids compost within two to four months in a commercial composting facility and significantly expand the company's range of tree-free and petroleum plastic-free disposable products, World Centric said.

Combined with World Centric NoTree cups and bowls made of tree-free paper sourced from renewable fibers like sugarcane bagasse and bamboo, restaurants, coffee bars, colleges and universities, hotels, hospitals and many other foodservice operators can now create a truly 100 percent compostable foodservice operation using sustainably produced products, according to World Centric.

"We are thrilled to unveil our new World Centric Leaf lid collection," said Mark Stephany, vice president of sales. "Using unbleached plant fibers to make our lids helps protect forest habitats that support both indigenous cultures and wildlife, while providing our foodservice customers an alternative to traditional disposable products."

For more information about World Centric and the new World Centric Leaf lids collection, visit worldcentric.com.

Equipment

Equipment manufacturers support 2.8 million jobs, report says

Equipment manufacturers support 2.8 million jobs and contribute $288 billion dollars a year to the U.S. economy, according to a new report released by the Association of Equipment Manufacturers (AEM) this week.

The report, *Market Size and Economic Contributions of the Off-Highway Industry,* provides a detailed assessment of the equipment manufacturing industry's contributions to the economy and how it supports 12 percent of all U.S. manufacturing jobs. The report, produced by IHS Markit, was released at CONEXPO-CON/AGG 2020, North America's largest construction trade show, on March 10.

"Every day the 2.8 million men and women of our industry roll up their sleeves and go to work building state-of-the-art equipment in communities across the country," said Dennis Slater, president of AEM. "This report tells the story of the people who make America by building the combine the farmer uses to harvest his corn and the excavator the construction worker uses to build our

roads and bridges."

The report focuses on several measures of economic value, including the total number of jobs supported by the equipment manufacturing industry and its contribution to the amount of gross domestic product (GDP) of the United States.

Highlights of the equipment manufacturing industry's contribution include:

• 2.8 million jobs supported across all 50 states
• $288 billion a year contributed to the U.S. economy
• Equipment manufacturers support at least 10,000 jobs in 44 states
• The top five states with the most jobs supported by the equipment manufacturing industry are Texas (622,882), Illinois (245,624), Wisconsin (187,699), Ohio (163,990), and Indiana (139,842)
• $791 billion dollars a year are generated by in total equipment sales and output $53.7 billion paid each year in federal, state, and local taxes
• Equipment manufacturing jobs pay 35 percent more than the national average

According to AEM, manufacturers of construction, mining and agriculture equipment remain a critical part of the U.S. economy. The report shows significant overall direct job growth for the industry over the last three years, at a rate of nearly 10 percent, fueled in part by historic tax reform and regulatory relief. However, tariffs on steel and other critical inputs, along with a protracted trade war with China, caused direct job growth to slow to just 1.2 percent in 2019, with both the construction and agriculture equipment sectors contracting by 0.7 and 0.6 percent respectively.

The report comes as a recent national poll shows that 91 percent of registered voters say manufacturing is critical or important to the U.S. economy.

The same poll also shows that more than three quarters of registered voters want to know how presidential candidates plan to support and grow manufacturing in the United States.

"2020 is an important election year for our industry, and for all manufacturers," said Jeff Reed, AEM chairman and president and CEO of Reed International/VSS Macropaver. "Voters look to elected officials and candidates to support pro-manufacturing policies. That means supporting free and fair trade, infrastructure investment, strong agricultural communities and training the next generation of America's workforce, all of which is critically important to the 2.8 million men and women of our industry."

To keep equipment manufacturing front and center in 2020, AEM said it is launching a series of initiatives to educate and engage the men and women of the industry on the policy issues that matter. This includes the "AEM 2020 Manufacturing Express," a three-month, 20-state bus tour that will highlight the importance of equipment manufacturing to communities across the country, connect manufacturing voters with elected officials and candidates, and promote civic engagement.

The bus tour as unveiled at CONEXPO-CON/AGG, in Las Vegas.

Compostables

Bronx college gets $340,000 for Compost Education Center

Lehman College, a part of the City University of New York (CUNY), has received $340,000 in capital finding for the creation of the Lehman College Composting Education Center.

The funding will allow Lehman College to create three 15- x 30-foot windrows that will allow it to more efficiently compost the more than 60 tons of garden and food scrap waste it produces each year, as well as the tools to manage the operation - a front loader and a sifter.

Each bay will contain composting materials at different phases in the process. Once the project is complete, Lehman will likely be able to increase the 1.3 tons of compost it produces annually. But more compost is not the only benefit to the improved infrastructure.

"It means more efficiency labor-hours wise, but it also makes more sense to a visitor to see different materials and how they transform," said Jodie Colón, manager of the NYC Compost Project. "It really gives Lehman the opportunity to host workshops and events — hosting school groups and community groups and educating them on the composting process."

What prevented Lehman from advancing its composting capabilities was its limited equipment and infrastructure, said Rene Rotolo, vice president of administration and finance.

"Our compost operation has expanded to the point where we can no longer operate in the manner that we did years ago," Rotolo said.

Lehman College was one of the first schools in the CUNY system to address food waste through innovative solutions, said college President Daniel Lemons.

"This funding is essential to our expansion of Lehman College's sustainability efforts," Lemons said. "It will allow us to convert our current composting infrastructure and augment our collaboration with the New York City Compost Project and the New York Botanical Garden in adding to the instruction for our students and the community on the best ways to utilize garden and food compost."

Lehman College has been composting the gardening waste on the school's 37-acre Bronx campus since 1996.

In 2009, the college began a food scrap collection program after a CUNY Sustainability Project intern, Edward Hernandez, worked with the college to do so.

That same year, Lehman began its partnership with the NYC Compost Project at the New York Botanical Garden and the program has grown. Several years ago, Lehman added food preparation scraps from its cafeteria to the program.

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