USCC affirms focus on market development
By Ken McEntee

Leadership of the U.S. Composting Council (USCC), at the organization’s 21st annual conference, affirmed a shift in focus from being in the waste management industry to being in the business of recovering organics for the manufacture of a valuable product.

“These are changing times and USCC is taking a leading role in redfining ourselves as manufacturers dedicated to recycling organic materials into valuable products that are essential to achieve healthy soils, clean water supply and a sustainable society,” said Lorrie Loder, president of the council. “We are in a shift from waste management to resource management. We’re not in the waste business. We’re in the organic resource recovery business. As an industry we must define who we are and what we do. Composting means different things to different people.”

Loder noted that during the past year, the council’s biggest accomplishments have included the development of a national model rule for composting.

(See USCC, page 8)

International Compost Awareness Week
May 6-12, 2013

Compost users and producers around the world will celebrate International Compost Awareness Week (ICAW), the largest and most comprehensive education initiative of the compost industry, during the first full week of May.

Composting News is among this year’s sponsors. This year activities span the globe with celebrations planned across the U.S., Canada, the U.K., Europe, Australia and Ireland.

ICAW is a multi-media publicity and education event that showcases composting and compost products, featuring both back yard composting and compost made at large scale commercial composting facilities.

For the past 13 years, ICAW has grown in both strength and numbers of celebrants through its sponsors and compost advocates.

(See Awareness, page 5)

Increasing urban food security with extensive green roofs
By Stephanie Gaglione & Brad Bass, Ph.D.

To increase food security in urban areas, food and environmental advocates are recommending that cities embrace urban agriculture. As most of the expected future global population growth will occur in urban areas, green roofs, which do not require additional fertile land, offer a very promising approach to increasing local food security and reducing the energy and cost of transporting this food into a city.

However, many buildings can only accommodate very lightweight,

(See Roofs, page 15)

Highlights

• Viridiun opens new office in Ohio
• Chicken producer recognized for clean water
• National compost prices

Visit Composting News online at www.compostingnews.com

Morbark,® the most trusted name in tree care, forestry, sawmill and wood recycling equipment has improved the quality of our chipper knives, giving you:

- **Morbark Durability** – Knives receive more wear than any other part of your chipping equipment, so you need a brand you can count on for high performance and long life.

- **Improved Quality** – Manufactured in America, our knives are subjected to stringent inspections to ensure they meet Morbark’s high standards of quality.

- **Better Value** – With their competitive initial cost and long wear life, these knives give you great value.

Cut costs without trimming quality with Morbark knives. Like all high-quality, genuine Morbark parts, they are easily available at any Morbark dealer.

Find your local Morbark dealer or learn more at www.morbark.com, or call us at 800-255-8839.
Viridiun opens new Ohio office

Food recycler Viridiun said its new office in Westerville, Ohio, will allow the company to build on what has been called the “next frontier of recycling,” curbing food waste, helping the local environment and creating new Ohio jobs, while assisting Ohio supermarkets, hospitals, universities, restaurants and other companies to achieve their sustainability goals.

Viridiun provides recycling services for Kroger, the country's largest grocery store chain, Ohio correctional facilities, American Electric Power and Chipotle Mexican Grill restaurants.

Corporately, Viridiun recycles almost three million pounds of organic-by-products per week, a number that increases daily, according to company spokesman Randy Abrams.

“Food waste recycling is a major component of our sustainability initiatives, as we are committed to reducing our overall waste footprint within the communities we serve,” said Marne Fuller, who heads retail operations for The Kroger Co., the world’s fourth largest retailer. “In Ohio we have been composting food waste since 2008, diverting 22 million pounds of organic material from Ohio landfills. Kroger associates find recycling food waste vs. throwing it away a natural part of their daily routine, and we are proud of the dedication each associate has toward sustainability.”

Viridiun Ohio, in collaboration with Ohio Mulch, operates a completely turnkey process, all of which takes place in Ohio. Jim Weber, president of Ohio Mulch said Viridiun organizes and manages food waste collection and transport to Ohio Mulch. Ohio Mulch

(See Viridiun, page 5)
Want to enter the retail bag market without being constricted by a form, fill, and seal system? The fully mobile Rotochopper Go-Bagger 250 combines unmatched simplicity and versatility, so you can fill and seal bags virtually anywhere you can drive a pick-up truck.

Ready to learn how the Go-Bagger 250 can add value to your bulk commodities? Give us a call today.
Food waste

Viridiun  
From page 3

recycles and processes the organic waste into Green Envy soil and potting soil and distributes the end products to its Ohio retail locations to be purchased by Ohio landscapers and consumers.

Manure management

Chicken producer recognized for clean water

G NP Co., the Midwest’s leading chicken producer, earned the poultry industry’s highest environmental honor - the 2013 Clean Water Award from the U.S. Poultry & Egg Association, the company announced. Winning in the full-treatment category, the award recognizes GNP’s outstanding water treatment facilities.

Clean, safe and energy-efficient water treatment has been one of the company’s main areas of focus over the last several years. In July 2011, GNP expanded and upgraded the existing water treatment facility at its Cold Spring, Minn. production plant. It now uses membrane bioreactor (MBR) technology, a state-of-the-art process that saves energy, resources and water. Solids filtered from the process are used to make a premium compost product.

With the MBR process, GNP captures and reuses about one-third of its daily water use, or 400,000 to 500,000 gallons of treated, reclaimed water in non-food contact areas. Ultraviolet disinfecting is used to treat all water and ultimately results in it being returned to the local Sauk River significantly cleaner than the naturally occurring water in which it enters, the company said. This process also removes biological phosphorus and nitrogen by-products, a critical issue for fish and other organisms.

Sand filtration is used in the process of treating reclaimed water. Overall, the cleaned water far exceeds industry standards and has no traceable odors. Solids remaining after water treatment are captured and used to make a compost product, putting important nutrients that would otherwise be wasted into the land.

“Taking a holistic look at the entire process and where we can add value, while lessening our impact on the environment, not only makes good business sense, it’s the right thing to do,” said Clay Watson, environmental manager and 30-year veteran of GNP.

The Clean Water Award committee of the U.S. Poultry & Egg Association noted that GNP is the only poultry company using the MBR technology and is also known to be the largest MBR system in the state of Minnesota. GNP’s facility also uses the most energy efficient air blower system possible for additional environmental and economic preservation.

Marketing Awareness

From page 1

To bring positive attention to the possibilities that composting can provide to communities, ICAW was designed to rally composting advocates and build awareness in every community.

Compost discussions, state ICAW proclamations, promotions with local dealers and landscape supply stores, informal lectures by well-known gardening experts, backyard composting bin promotions and urban gardening programs are examples of how municipalities and public and private groups can be involved.

This year’s ICAW theme in the U.S. is Compost: Nature’s Way to Grow. The theme in Canada is Feed the Soil.

“Compost Week is a celebration of the possible,” said Susan Antler, executive director of the Compost Council of Canada. “We all generate organic waste materials, but when we recycle them through composting, we can return them to the earth for future life.”

This year, the Compost Council of Canada said it is highlighting two important research developments. One is a study being carried out by researcher Christine Brown, Nutrient Management Field Crop Lead for the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA).

Designed to test the benefits of compost derived from “green bin” collection of household food waste, the study is also focusing on the supply and application logistics to help “Cities Feed Farm Soil.”

The council is participating in this study with the support of municipal green bin compost producers along with the Ontario Soil and Crop Improvement Association and the Canadian Fertilizer Institute. Also, the council announced the release of Environment Canada’s Technical Document on Municipal Solid Waste Organics Processing, a

(See Awareness, page 8)
National Compost Prices
Make Mountains of Mulch

High volume mulch producers know that when they have taken care of the logistics of a mulching operation, they need the power, reliability, and quality that only a Peterson horizontal grinder can provide.

- Caterpillar power from 475 to 1200hp
- Over 500 yards per hour output capacity
- Lowest cost per ton output

No matter what your grinding application, Peterson’s horizontal grinders can get you the volume and productivity that you demand. For more information about Peterson products, call Peterson at 800.269.6520 or visit us at www.petersoncorp.com today!
Marketing

Awareness
From page 5

A comprehensive study of organics recycling methods in Canada.


Since Compost Week coincides with Hunger Awareness Week (a project of Food Banks Canada), many communities will celebrate both occasions at once by holding garden openings or tree plantings that tie in with the Plant a Row • Grow a Row, a program which channels food grown by home and community gardeners into food banks.

The poster for the U.S. ICAW was designed by Jennifer Tigani, a high school junior from Westland, Mich., who won the annual USCC poster contest.

“Ms. Tigani’s design is a compelling reflection on the role of compost in maintaining a healthy planet,” said Michael Virga, USCC executive director. “It’s encouraging to see a young talent such as Jennifer invest her time and creativity to promote this important message.”

Jennifer won a prize of $500 for her entry.

“The U.S. Composting Council is pleased with the overwhelming response this year with over 150 entries from around the globe,” said Lorrie Loder, president of USCC. “This year’s poster contest was truly an international event with each division winner representing a different country. It’s exciting to see that people from around the world understand the important role compost has on creating a sustainable society.”

USCC
From page 1

infrastructure and its activity in addressing the problem of persistent herbicides that don’t break down during the composting process.

“We have also reinvigorated our Educational Research Foundation

(See USCC, page 13)
**Product/Equipment and Services Guide**

**Analytical Laboratory**

**Control Laboratories**
42 Hangar Way
Watsonville, CA 95076
Phone: 831.724.5422
Fax: 831.724.3188
Web: www.compostlab.com
Email: frank@compostlab.com
Contact: Assaf Sadah

**Agricultural Analytical Services Lab**
Tower Road
University Park, PA 16802
Phone: 814.863.0841
Fax: 814.863.4540
Email: aaslab@psu.edu
Web: www.aasl.psu.edu
Contact: Jamie Klaue

**Woods End Laboratories Inc./Solvita**
PO Box 297
Mt. Vernon, ME 04352
Phone: 207.293.2457
Fax: 207.293.2488
Email: lab@woodsend.org
Web: www.woodsend.org
Web: www.solvita.com
Contact: Tom Thornton

**Bagging/Packaging Equipment**

**Premier Tech Chronos**
1, Avenue Premier
Riviere-du-Loop, Quebec G5R 6C1
Canada
Phone: 418-868-8324
Fax: 418-862-6642
E: info@ptchronos.com
Web: www.ptchronos.com
Contact: Van Claud

**Chippers & Stump Grinders**

**Vermeer Corporation**
P.O. Box 200
Pella, IA 50219
Phone: 641-628-3141
Phone: 888-VERMEER
Fax: 641.621.7734
Email: salesinfo@vermeer.com
Web: www.vermeer.com

**Compost Mixers & Spreaders**

**Roto Mix, LLC**
2205 E Wyatt Earp
Dodge City, KS 67801
Phone: 620/225-1142
Fax: 620/225-6370
Web: www.rotomix.com
Email: gfsmith@roтомix.com
Contact: Garland Smith

**Compost Turners**

**Aeromaster**
Midwest Bio-Systems
28933 - 35 E Street
Tampico, IL 61283
Phone: 800.689.0714
Fax: 815.438.7028
Web: www.aeromasterequipment.com
Web: www.midwestbiosystems.com

**Brown Bear Corp.**
PO Box 29
2248 Avenue of Industry
Corning, IA 50841
Phone: 641.322.4220
Fax: 641.322.3527
Contact: Stan Brown
Email: sales@brownbearcorp.com
Web: www.brownbearcorp.com

**HCL Machine Works**
15142 Merrill Ave.
Dos Palos, CA 93620
Phone: 209.392.6103
Fax: 209.392.3000
Email: hcl@dospalos.org
Web: www.hclmachineworks.com
Contact: Sherrill Campbell
Contact: Casey Campbell

**Resource Recovery Systems International-KW**
511 Pawnee Dr.
Sterling, CO 80751
Phone: 970.522.0663
Fax: 970.522.3387
Email: rrskw@bresnan.net
Web: www.rrskw.com
Contact: Les Kuhlman, Ph.D.
Composting News / March 2013

Product/Equipment and Services Guide

Field testing

SCARAB Manufacturing. Inc.
1475 Co. Rd. W
White Deer, TX 79097
Phone: 806.883.7621
Fax: 806.883.6804
Web: www.scarabmfg.com
Email: tiffany.reid@scarabmfg.com
Contact: Tiffany Reid

Vermeer Corporation
P.O. Box 200
Pella, IA 50219
Phone: 641-628-3141
Phone: 888-VERMEER
Fax: 641.621.7734
Email: salesinfo@vermeer.com
Web: www.vermeer.com

Wildcat Manufacturing
PO Box 1100
Freeman, SD 57029-1100
Phone: 800.627.3954
Fax: 605-925-7536
Web: www.wildcatmfg.com
Email: timo@wildcatmfg.com
Contact: Tim O’Hara

Consulting Firms

Coker Composting & Consulting
104 Chasewood Court
Vinton, VA 24179
Phone: 540-890-1086
Fax: 540-874-5168
Web: www.cokercompost.com
Email: escoker@verizon.net
Contact: Craig Coke

In-Vessel Composting

Woods End Laboratories Inc./Solvita
PO Box 297
Mt. Vernon, ME 04352
Phone: 207.293.2457
Fax: 207.293.2488
Email: lab@woodsend.org
Web: www.woodsend.org
Contact: Tom Thornton

Bandit Industries, Inc.
6750 Millbrook Road
Remus, MI 49340
Ph: 989.561.2270,
800.952.0178
Fax: 989.561.2273
E. sales@banditchippers.com
Web: www.banditchippers.com
Contact: Regional Sales Manager

Colorbiotics
1725 Dayton Avenue, PO Box 647
Ames, IA 50010
888-663-6980
Email: matt.steward@colorbiotics.com
Web: www.colorbiotics.com
Contact: Kent Rotert

Rotochopper
217 West Street
St. Martin, MN 56376
Phone: 320.548.3586
Fax: 320.548.3372
Email: info@rotochopper.com
Contact: Monte Hight
Web: www.rotochopper.com

Public Relations & Marketing

The Write Company
9815 Hazelwood Avenue
Strongsville, OH 44149
Ph. 440.238.6603
W. www.thewriteco.com
E. ken@thewriteco.com

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

Colorbiotics
1725 Dayton Avenue, PO Box 647
Ames, IA 50010
888-663-6980
Email: matt.steward@colorbiotics.com
Web: www.colorbiotics.com
Contact: Kent Rotert

Rotochopper
217 West Street
St. Martin, MN 56376
Phone: 320.548.3586
Fax: 320.548.3372
Email: info@rotochopper.com
Contact: Monte Hight
Web: www.rotochopper.com

Public Relations & Marketing

The Write Company
9815 Hazelwood Avenue
Strongsville, OH 44149
Ph. 440.238.6603
W. www.thewriteco.com
E. ken@thewriteco.com
Replacement Parts

**ARMORHOG**
CW Mill Equipment -
14 Commerce Drive
Sabetha, KS 66534
Phone: 800-743-3491, 785-284-3454
Fax: 785-284-3601
Email: sales@armorhog.com
Web: www.armorhog.com
Contact: Brian Bergman

**Grinder Wear Parts**
Formerly The Trading Company
2062 20th Avenue SE
Largo, FL 33771

**Oregon Manufacturing**
2785 N. Front Street
Woodburn, OR 97071
Phone: 503.982-0880
Fax: 503.982.0881
Toll Free 800.827.0401
Web: www.grinderwearparts.com
Email: info@grinderwearparts.com
Contact: Wayne Brown, VP

**Hogzilla Grinders**
CW Mill Equipment -
14 Commerce Drive
Sabetha, KS 66534
Phone: 800-743-3491 or 785-284-3454
Fax: 785-284-3601
Email: hogzilla@cwmill.com
Web: www.hogzilla.com
Contact: Tim Wenger, President, Sales Mgr.

**Orbit Screens Inc.**
PO Box 345
Delhi, IA 52223
Phone: 563.922.9230
Fax: 563.922.9060
Contact: Brad Schnittjer
Web: www.orbitscreens.com
Email: brad@orbitscreens.com

**Premier Tech Chronos**
1, Avenue Premier
Riviere-du-Loop, Quebec G5R 6C1
Canada
Phone: 418-868-8324
Fax: 418-862-6642
E: info@ptchronos.com
Web: www.ptchronos.com
Contact: Van Claud

**Wildcat Manufacturing**
PO Box 1100
Freeman, SD 57029-1100
Phone: 800.627.3954
Fax: 605-925-7536
Web: www.wildcatmfg.com
Email: timo@wildcatmfg.com
Contact: Tim O’Hara

**West Salem Machinery**
P.O. Box 5288
665 Murlark Ave, NW
Salem, OR 97304
Phone: 800-722-3530
or 503-364-2213
Fax: 503-364-1398
Web: www.westsalem.com
Contact: John Snodgrass

**Vermeer Corporation**
P.O. Box 200
Pella, IA 50219
Phone: 641-628-3141
Phone: 888-VERMEER
Fax: 641.621.7734
Email: salesinfo@vermeer.com
Web: www.vermeer.com

**Used Equipment**

**Apollo Equipment**
2062 20th Avenue SE
Largo, FL 33771
Phone: 800-982-2844
or 503- 585-1442
Fax: 727-585-3499
Web: www.apolloequipment.net
E: info@apolloequipment.net
Contact: Wayne Brown, VP

**Hogzilla Grinders**
CW Mill Equipment -
14 Commerce Drive
Sabetha, KS 66534
Phone: 800-743-3491 or 785-284-3454
Fax: 785-284-3601
Email: hogzilla@cwmill.com
Web: www.hogzilla.com
Contact: Tim Wenger, President, Sales Mgr.

**Quick Response (QR) Codes**
The two dimensional "barcode" above each listing is a digital link to the company’s website. The QR code can be read by the camera on mobile devices equipped with barcode readers. Just scan the code to access the website. For technical details, contact your mobile phone vendor.

**Thermometers & Monitoring Equipment**

**REOTEMP Instruments**
10656 Roselle Street
San Diego, CA 92121
Ph: 800.648.7737
Fx: 858.784.0720
Contact: Nathan O’Connor
Email: compost@reotemp.com
Web: www.reotemp.com/composting-products.html

**Screening Systems & Trommels**

**Orbit Screens Inc.**
PO Box 345
Delhi, IA 52223
Phone: 563.922.9230
Fax: 563.922.9060
Contact: Brad Schnittjer
Web: www.orbitscreens.com
Email: brad@orbitscreens.com
Wood Chip Processors

**Rotochopper**
217 West Street
St. Martin, MN 56376
Phone: 320.548.3586
Fax: 320.548.3372
Email: info@rotochopper.com
Contact: Monte Hight
Web: www.rotochopper.com

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

**Hogzilla Grinders**
CW Mill Equipment - 14 Commerce Drive
Sabetha, KS 66534
Phone: 800-743-3491 or 785-284-3454
Fax: 785-284-3601
Email: hogzilla@cwmill.com
Web: www.hogzilla.com
Contact: Tim Wenger, President, Sales Mgr.

**Morbark Inc.**
P.O. Box 1000
Winn, MI 48896
Phone: 800.233.6065
Fax: 800-832-5618
Web: www.morbark.com
Email: inquire@morbark.com

**Peterson**
PO Box 40490
Eugene, OR 97404
Phone: 800.269.6520
Fax: 541.689.0804
Email: e.peterson@petersoncorp.com
Web: www.petersoncorp.com
Contact: Michael Spreadbury

**Rotochopper**
217 West Street
St. Martin, MN 56376
Phone: 320.548.3586
Fax: 320.548.3372
Email: info@rotochopper.com
Contact: Monte Hight
Web: www.rotochopper.com

Wood Grinders & Shredders

**ARMORHOG**
CW Mill Equipment - 14 Commerce Drive
Sabetha, KS 66534
Phone: 800-743-3491, 785-284-3454
Fax: 785-284-3601
Email: sales@armorhog.com
Web: www.armorhog.com
Contact: Brian Bergman

**Bandit Industries, Inc.**
6750 Millbrook Road
Remus, MI 49340
Ph: 989.561.2270,
800.952.0178
Fax: 989.561.2273
E. sales@banditchippers.com
Web: www.banditchippers.com
Contact: Regional Sales Mgr.

**Diamond Z Manufacturing**
11299 Bass Lane
Caldwell, ID 83605
Phone: 208.585.2929
Fax: 208.585.2112
Contact: Pat Crawford
Email: pat.crawford@rulesteel.com
Web: www.diamondz.com

**Grinder Wear Parts**
Formerly The Trading Company
2662 20th Avenue
Largo, FL 33771

**Oregon Manufacturing**
2785 N. Front Street
Woodburn, OR 97071
Phone: 503.982-0880
Fax: 503.982.0881
Toll Free 800.827.0401
Web: www.grinderwearparts.com
E. info@grinderwearparts.com
Contact: Wayne Brown, VP

**Vermeer Corporation**
P.O. Box 200
Pella, IA 50219
Phone: 641-628-3141
Phone: 888-VERMEER
Fax: 641.621.7734
Email: salesinfo@vermeer.com
Web: www.vermeer.com

**West Salem Machinery**
P.O. Box 5288
665 Murlark Ave. NW
Salem, OR 97304
Phone: 503-364-1398
Fax: 503-364-2213
Web: www.westsalem.com
Contact: John Snodgrass

Quick Response (QR) Codes
The two dimensional "barcode" above each listing is a digital link to the company’s website. The QR code can be read by the camera on mobile devices equipped with barcode readers. Just scan the code to access the website. For technical details, contact your mobile phone vendor.

How can you not have your company listed here? To fix the problem, contact Ken McEntee
440.238.6603 or ken@recycle.cc
Composting News / March 2013

Marketing

USCC
From page 1

(See USCC, page 14)

Michael Virga, following up about USCC’s expanded efforts to market compost, cited the council’s development of the tagline, *Compost: Nature’s Way to Grow*, and the related Million Tomato Compost Campaign, which kicked off this month. Virga didn’t mention that the council’s new tagline, which was introduced last fall, is curiously similar to *Compost: Way 2 Grow*, a web-based campaign created more than a year ago by *Composting News* – complete with a “tomato” logo.

“The Million Tomato campaign has a single purpose – to drive our markets and promote the use of compost and generate more sales,” Virga said. “That’s the purpose of *Composting News*’s Way-2-Grow.com as well.” The Tomato campaign will be with us through 2013, but the tagline will stay with us long after that. We need to brand the USCC and compost use with our tagline – *Compost: Nature’s Way to Grow*. We need compost to be a household word. We can get there by saturating the market and incorporating the tagline to everything we do. You can help by using it wherever you can. Websites, promotional literature, business cards, letterhead. ‘Compost: Nature’s Way to Grow’ is the theme of this year’s International Compost Awareness Week (ICAW) in May and is also the theme of the ICAW posters. It will also be the theme of our annual conference in 2014.”

Virga quoted Matthew McKenna, president and CEO of Keep America Beautiful, saying that “composting is the next wave of environmentalism.”

He noted the council’s Two Cents for Compost program, which was launched last year to raise money for the CCREF. Under the voluntary program, producers pay two cents per ton of compost that they sell, or a penny per cubic yard, into the fund. The goal is to raise $100,000 per year, by year two. In 2012, about 3.2 million tons of compost was sold bearing the council’s Seal of Testing Assurance (STA).

Here are some other notes from the council’s 21st annual conference, which was held in Orlando:

- **Walmart.** Walmart has instituted a three-pronged approach to recovering the organic fraction of its waste, made up of recovery for animal feed, creation of energy and composting, according to Vonda Lockwood, senior director for sustainability and compliance for Walmart’s U.S. operations. Lockwood said about half of the company’s organics are composted, with 43 percent going for animal feed. Only 7 percent is digested for energy recovery.

  “Anaerobic digesters have not become cost effective for us yet,” she said. “We thought it would be bigger than it is. Animal feed has been the real surprise.

(See USCC, page 14)
**Marketing**

**USCC**

From page 13

We are starting to make money on it.”

**Restaurant waste.** Restaurant food waste composting presents a major opportunity for composters to gain new feedstocks in the coming years.

“Sustainability is one of four business areas of business focus recently adopted the National Restaurant Association (NRA).

“We need to do a lot of education with restaurant owners and managers about energy and waste management,” said Scott DeFife, executive vice president of the NRA. “From the restaurant perspective, we have just touched the tip of the iceberg. Restaurant owners work on very small margins and they are very independent. They don’t like people telling them what to do.”

DeFife cited the fight against the table salt ban New York City Mayor Michael Bloomberg is attempting to push on eateries in that city.

**STA.** Jeff LaBlanc, owner of We Care Organics, said the key to the success of the composting industry will be the marketing and sale of end products.

“The Seal of Testing Assurance (STA) program has been very important,” he said. “The STA seal is critical when you are competing against municipal facilities that don’t compost very well.”

**Landfill bans.** One group of four panelists at the conference indicated support of banning yard waste and other organic residuals from landfills.

“We are generally not in favor of mandates, at least until there is an infrastructure in place for collection,” DeFife said.

“Bans can work but you need to have an infrastructure in place in advance to do it,” said George Dreckman, recycling coordinator for Madison, Wisc.

“We are in favor of bans,” LaBlanc said. “An infrastructure is in place to collect yard waste. Food waste is different because a collection system is not yet in place, so I’m not sure that we’re ready for a food waste ban.”

“We see no problem with bans as long as the infrastructure is in place,” said Bill Caesar, president of Waste Management Recycle America and Waste Management Organic Growth.

“We are generally not in favor of mandates, at least until there is an infrastructure in place for collection,” DeFife said.

“We have been fighting the waste industry on yard waste bans to the tune of $100,000 over four years,” Lindeberg said. “I am looking for a commitment from you. Waste Management’s view has been that composting is a drag on the economy.”

“All we want is a level playing field,” Caesar responded. “The commitment I can make is that we are going to do what is best for the city in question. Landfilling is not the best use for yard waste, but there are a lot of composting facilities that would not pass a regulatory review.”

**Applications**

**Roofs**

From page 1

extensive green roofs that are too thin to maintain a nutrient supply in the growing medium. Nutrients can be replenished using a commercial fertilizer, which in itself will have a large carbon input and an additional expense.

Some recent work with lightweight, extensive green roof panels demonstrated that food could be grown on these roofs using a nutrient tea derived from household organic waste. This experiment used an ultra-light green roof panel with less than three centimeters of growing medium in one square-metre panels, manufactured by XeroFlor International. These panels were five-years old and had exhausted their nutrients. The aerobic degradation of household organic waste was exploited.
WasteExpo 2013

Unmatched opportunities.
Outstanding connections.
The best new thinking.
With cool jazz on the side.

Where better to focus on the growing concern for the environment than an environment that's one of a kind? One that swings to its own distinct beat.

The Big Easy is the perfect setting to join your peers and colleagues as we focus on protecting the world around us. As first environmentalists and the new sustainability experts meet, you'll find yourself part of a dynamic and growing community.

Plus, we're unveiling ALL-NEW content to keep the event fresh and timely with our new organics management and composting sessions. Visit www.wasteexpo.com for more details on this exciting new content developed with the help of Dr. Stu Buckner.

And when it comes to making connections, WasteExpo 2013 promises to be unsurpassed, providing networking opportunities on a global scale, expanding access and helping to fuel collaboration and accomplishment. So don't miss out. Learn more now at wasteexpo.com. And get your groove on.

Conference:
May 20-22, 2013
Exhibits: May 21-23, 2013
Ernest N. Morial Convention Center
New Orleans

Follow us on Facebook and Twitter:

Sponsors:
Waste Age
waste360.com

Produced by:
Penton
to create a high-quality nutrient tea from compost that was evaluated as a replacement for conventional fertilizers.

A liquid nutrient source was derived from compost produced from six-to-eight centimetre layers of carbon-and nitrogen-rich organic waste combined with 20 millilitres of an acclimated bacterial liquid to speed up decomposition. Heirloom seeds of Red Russian kale, Bloomsdale spinach, Salad Bowl lettuce, Bronze Arrowhead lettuce as well as shallots were planted in two groups and after three weeks were transplanted into a green roof panel.

The green roof panels were divided into three sections. The first section was the control, the second was supplemented with Plant Starter Fertilizer containing rooting hormone Indol-3-Butyric Acid (0.003%) and the nutrient “tea” was applied to the third segment for 15 seconds each day.

The growth of Red Russian kale, Bloomsdale spinach, Bronze Arrowhead lettuce and the shallots demonstrated the potential for raising crops on a lightweight green roof panel. The plants in all three sections were compared with respect to root length, total height and leaf length. The root length was similar for all plants in all three sections, with a median length of 5.3 cm. Although the growth in each section was similar, the plants grown with compost tea were consistently taller and had slightly longer leaves than those grown in the other two sections.

Although these are not the optimal conditions for commercial urban food production, food security can be enhanced with lightweight extensive green roofs, supplementing with a nutrient solution derived from household waste. This particular approach can be utilized on a wide range of roofs or in other urban spaces, over a wide range of income levels, providing one more option for increasing urban food security.
- **Container gardens** are one of the fastest growing segments of gardening. Containers can be grown where traditional gardens are not possible including decks, patios and areas with poor soil. Since containers are movable, they can be placed in different areas where instant landscaping and color is desired. Container gardening is not just for flowers, but vegetables also do well when planted the same way.

No matter what container you select, the most important thing to consider if drainage. Plants will not grow successfully in soil that is continually water logged. If there are no drainage holes in the container make multiple holes in the bottom.

Well prepared garden soil is great for growing plants in the ground. Never use garden soil by itself no matter how good it looks or how well things have been growing in it before. When garden soil is put into containers both drainage and aeration change and the results are that plants grow poorly or not at all.

There are different ideas of what the actual mixture of organic and inorganic matter used in these mixes should be and if you talk to a number of gardeners you will probably get a variety of answers. I like to use a mixture of 30 percent topsoil, 30 percent compost and 40 percent mixture of peat moss and vermiculite. You can experiment and use whatever does the best job in your container. - *Muskateen (Iowa) Journal.*

- The **Regional District of Nanaimo, B.C.** (RDN) board of directors voted unanimously for a motion to hire a consulting firm to find the source of the odor, then solve it. Residents have been complaining about an odor in low-lying areas along the banks of the Nanaimo River. Possible sources range from farms through a rendering plant, a pulp mill and the International Composting Corp. plant, which has the RDN’s green food waste recycling contract.

It’s not the first time the RDN hired a consultant to find the source of a weird smell - in the 1990s, odours at the French Creek sewage plant sparked a search that solved the problem in about a year, after several options were tried. - *Canada.com*

- **Greenfield, Mass.** is looking at how it might dispose of its own sludge in the future to save about $200,000 a year, but a citizens petition to stop biomass-burning plants and “all waste-to-energy facilities” could put an end to any plans before they begin. The town’s energy and sustainability coordinator said the town has received a Massachusetts Clean Energy Center grant of $40,000, which has allowed it to study what type of facility would save the town money, while allowing it to take responsibility for its own waste and heat its transfer station.

Currently, the town ships its heavy, wet sludge, the solids left after wastewater treatment, to plants in New Haven, Conn. and Millbury. Town officials believe an anaerobic digester and combined heat and power facility would eliminate the costs associated with shipping the wet solids, as well as the cost to heat and provide electricity to the transfer station. - *Greenfield Recorder*
Harvest Power mobile app upgraded

Harvest Power announced that it has upgraded its Harvest Landscape Calculator, a mobile app for gardeners and landscapers. The free app, now available on Android devices in addition to iPhones and iPads, features an enhanced user interface that makes it easier to determine how much soil, mulch or stone is needed for any gardening project.

“Gardeners want to spend the weekend up to their elbows in soil, not crunching numbers figuring out how much mulch to buy,” said Paul Sellew, CEO of Harvest Power. “Since many of us at Harvest are avid gardeners, we’re excited to improve the app and offer it to more customers. The Harvest Landscape Calculator takes the guesswork out of soil purchases, allowing users to save money and focus on the landscapes they love.”

The Harvest Landscape Calculator uses garden dimensions to calculate the volume of soil, mulch or stone needed for a landscaping project. In addition to displaying useful conversions for filling pots and hanging baskets, it also offers tips for applying compost to flower beds, gardens, lawns, turf surfaces, trees and shrubs. With a bit of whimsy, the app provides inspirational quotes to help aspiring gardeners get in the planting spirit.

To download the Harvest Landscape Calculator, or to learn more, visit Google Play, the iTunes Store or www.harvestpower.com.

Harvest helps communities better manage and beneficially re-use their organic waste through the production of renewable energy and soils, mulches and natural fertilizers. Harvest’s vision is to find the highest and best use for the 500 million tons of organic materials produced in North America each year.

Toter introduces a composter for organic waste

Toter, a division of Wastequip, has introduced the Toter composter, a unique continuous flow unit designed to make composting easy. The Toter composter was developed with the user in mind, the company said. Unlike tumbler-style units that are difficult to use and require batch loading, where users have to load the unit and wait up to eight weeks before adding more material, the Toter composter is a continuous feed unit. It loads from the top and finished material falls into the holding chamber below by turning the integrated handle.

The composter’s continuous flow design means finished compost falls through the mixing chamber and into the holding chamber below. An internal aeration chimney facilitates the flow of air throughout the material to enhance the composting process.

Like Toter carts, the composter is manufactured with Toter’s Advanced Rotational Molding process to create a durable product that is stronger and more impact-resistant than injection molded products.

“The Toter composter is the result of extensive consumer research to determine the features consumers want most in a composter,” said Joe Futcher, president of Toter. The Toter composter is available online at HomeDepot.com.

Massucco T. brings McCloskey equipment to Northwest Italy

Italy-based Massucco T. is adding to its already substantial fleet of new, used and rental equipment by becoming the official McCloskey International dealer for North West Italy. McCloskey is a world leader in innovating and manufacturing high-quality mobile crushers, high-energy vibrating screeners, trommel screeners, and stackers. With offices in Canada and Ireland, McCloskey International is rapidly expanding its global dealer network across all geographies.

“The reputation of this equipment is very good,” said Riccardo Messi of Massucco T. “We have been selling and servicing used McCloskey equipment and our customers have been asking for more McCloskey machines to grow their productivity. The fact that every McCloskey machine is designed and continually improved through customer input and extensive field testing is important to them.”

Because the dealership has already been selling used McCloskey equipment, the team at Massucco T. already know how to maintain and operate the machines. This experience will be an asset as they will serve as a fully-stocked dealership backed by McCloskey’s commitment to provide comprehensive, in-depth training to ensure Massucco T. technicians are certified to work on the entire range.

“We look forward to partnering with Massucco T. building on their experience and expertise to provide not only our proven McCloskey equipment to their customers, but the service and support our success is built on,” said Seamus Doyle, international sales director for McCloskey. For more information visit www.mcclosleyinternational.com.
733 TROMMEL SCREEN

HIGH PRODUCTIVITY HIGHEST THROUGHPUT
McCloskey 733 Trommel Screens are high production machines with extensive stockpiling capabilities thanks to the patented Radial Conveyor. Available in electric, the 733 meets most emission requirements, and is the trommel of choice for high throughput organics or recycling screening.

McCloskey International Ltd
1-877-876-6635 / (705) 295-4925
sales@mccloskeyinternational.com
www.mccloskeyinternational.com