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Speaker's Corner

"Anaerobic Digestion of Source Separated Organics - Lessons Learned from Europe"

**By Ljupka Arsova,
Consultant II**

In October 2012, Ljupka Arsova made a presentation entitled "Anaerobic Digestion of Source Separated Organics - Lessons Learned from Europe" at the Renewable Energy From Organics Recycling Conference at BioCycle, in St. Louis, MO.



PDF of the presentation:
www.gbbinc.com/speaker/ArsovaBioCycle2012.pdf

GBB Waste Outlook

Cleveland Recycling and Energy Generation Center Project GBB Assisting in Evaluating Development Options

GBB is continuing its evaluation of development options for the Cleveland Recycling and Energy Generation (CREG) Center project. The City of Cleveland hired GBB to review options for the CREG Center project which seeks to better manage the City's municipal solid waste, with the potential for using waste as a source for locally-produced energy.

Joining GBB for this assignment are five firms with complementary backgrounds that will work seamlessly with GBB, bringing to the table their local understanding and/or in-depth experience in key areas of expertise for this important project. They are: NTH Consultants, Ltd., McGuiness Unlimited, Inc., and Whelan Communications, Inc., which are all based in Cleveland; GT Environmental, Inc., based in Ohio; and RMF Engineering, Inc.

In September 2011, the Division of Cleveland

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"Cleveland has been investigating the use of municipal solid waste (MSW) for the production of energy since at least 2007.

Our goals, in part, are to reduce Cleveland's dependence on fossil fuels, develop local energy generation capacity, and recover marketable by-products, such as recyclables, from MSW.

The GBB Project Team is in a unique position to assist us in developing a successful project due to its background, project understanding, local offices and resources, and experience. We anticipate this process will result in a short-listing of qualified companies and a Request for Proposals by the fall of 2013."

*-- Ken Silliman
Chief of Staff for Mayor Frank Jackson*

GBB Clients Honored at WASTECON

Since our founding in 1980, GBB's overall guiding principle has been to help clients generate success stories, working closely in partnership with them to develop innovative, cost-effective approaches that achieve measurable results. We strive to bring a fresh perspective and provide independent objective advice and a "telling it like it is" attitude in order to help advance better solutions for managing solid waste. Working with great clients is very rewarding and stimulating for GBB, and we'd like to congratulate the following clients that were honored at the Solid Waste Association of North America's (SWANA) WASTECON this past summer:

Nancy Nevil - 2012 Robert L. Lawrence Distinguished Service Professional Achievement Award

Director of Sustainability and Environmental Services for the City of Plano, TX, Ms. Nevil received the award recognizing her service to Municipal Solid Waste Management. The award represents the highest accolade the solid waste field can bestow and is not always awarded each year. Since then, in January 2013, Nancy retired from the City. We wish her all the best! The award presentation and acceptance speech can be viewed at: tinyurl.com/nancynevil

Excellence Awards Program

The Excellence Awards Program recognizes outstanding solid waste programs and facilities from some of the most innovative and dynamic organizations throughout North America.

(Continued on page 2)



(left to right) Mary-Jane Atwater (GBB Principal Associate), Rick Nevil (Nancy's husband), Nancy Nevil, and Harvey Gershman (GBB President.)

Conventions & Tradeshows:

GBB will be present at the following industry events:

Southeast Recycling Conference & Tradeshow

Destin, FL
March 10-13, 2013

Tim Giardina, Speaker
"Waste-to-Energy and Conversion Technologies"
"Win-Win Approach to Procurements"

www.southeastrecycling.com

Sustainable Packaging Coalition Meeting

San Francisco, CA
March 20-23, 2013

Harvey Gershman, Speaker
"Deep Dive into Life Cycle of Flexible Packaging"
tinyurl.com/SPCmarch

SWANA Caribbean Chapter Training

San Juan, PR
April 1-4, 2013

Frank Bernheisel, Instructor
"Collection Course"

SWANA International Board Meetings

San Juan, PR
April 4-5, 2013

John Carlton

BioCycle West Coast

San Diego, CA
April 9-10, 2013

Ljupka Arsova, Speaker
"Overcoming Challenges of Financing a Source Separated Organics Anaerobic Digestion Project"
www.biocyclewestcoast.com

Visit the conference / tradeshow section of our Website for a continuously updated list of events!

Cleveland Recycling and Energy Generation Center Project

(Continued from page 1)

Public Power (CPP) began a procurement process for the development of the project and initially issued a Request for Information and Qualifications (RFIQ), followed later by a Supplemental Request for Information and Qualification (SRIQ), that targeted a wide variety of waste conversion and management approaches, including recycling, composting, thermal conversion, pyrolysis, gasification, and fuel production, as well as consulting and financial firms to assist in project development.

The GBB Project Team will review, analyze, and evaluate the responses received through the RFIQ and SRIQ; evaluate gasification to energy development efforts; evaluate the co-generation opportunity; and provide a shortlist and comparison of the three best overall options, along with a life cycle analysis of each, and; make overall recommendations on how to develop the CREG Center.

The City of Cleveland Department of Public Works operates the Division of Waste

"This is an important assignment, and we are excited and enthusiastic for this opportunity to work closely with the City of Cleveland in developing a roadmap for a sound and successful CREG Center."

-- John Carlton, GBB Vice President

Collection and Disposal (DWC), which provides weekly collection of waste from 155,000 homes, the City's West Side Market, Fire and Police Stations, the Justice Center, City Hall and other City buildings and public areas. DWC also operates the Ridge Road Transfer Station, where all MSW is brought before going to landfills. The City has an Advance Energy Portfolio Standard (AEPS) that requires CPP to diversify its power supply. The AEPS requires CPP to purchase at least 15% of its base load power from advanced and renewable sources by 2015, 20% by 2020, and 25% by 2025. CPP has entered agreements for several renewable and advance energy projects including hydropower, solar, and waste-to-energy anaerobic digestion technology projects and is expected to meet the 2015 milestone.

GBB Clients Honored at WASTECON

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City of Fort Wayne, IN: Gold - Collection Systems



(left to right) Kira Blacketer, Program Manager of the Solid Waste Department, and Matt Gratz, Solid Waste Manager, receive the award from SWANA Executive Director and CEO John Skinner, Ph.D.

City of Charlotte, NC: Gold - Marketing / Bronze- Communications



(left to right) Tim Giardina (GBB VP), Esperanza Dash (Waste Reduction Analyst), Erica Robinson (Public Information Officer), Victoria Johnson (Director), Charita Curtis (Public Affairs Manager), and Harvey Gershman (far right).

Emerald Coast Utilities Authority, FL: Gold - Public Education/Bronze - Collection Systems

Unlocking the Vast Potential of Energy Recovery

This past summer, the American Chemistry Council (ACC) hosted a forum on Capitol Hill entitled "Unlocking the Vast Potential of Energy Recovery," where an overview of the latest waste-to-energy (WTE) and conversion technology (CT) trends was presented. Expanded use of energy recovery as an abundant and alternative energy source was discussed, and legislative strategies to boost private sector investments were outlined.



Cal Dooley, ACC President and CEO, was joined by Sen. Ron Wyden (D-OR), Congressman Bill Cassidy, M.D. (R-LA) and a panel of business leaders and experts, moderated by Harvey Gershman, GBB President.

"The waste that isn't recycled here, on Capitol Hill, goes to a waste-to-energy facility in Alexandria, Virginia to make power for the grid, and has done that reliably for over 20 years," noted Gershman. "We recycle over 30 percent of our waste now in the U.S., and there is potential to do more. Waste-to-energy plants work hand in hand with robust recycling programs and generally have higher recycling rates than communities that do not have waste-to-energy facilities. But at the end of the day, too much is transported to landfills and buried, slowly rotting and generating methane that can be recovered for energy. This is energy inefficient and not what we should be doing. We need to get more out of our waste than we do now."

Watch a 4-minute video with highlights of the meeting:
www.gbbinc.com/ACC-Capitol-Hill.shtml

Tom Reardon Elected Vice Director of SWANA's WTE Technical Division

In Tom Reardon, GBB Vice President, was elected Vice Director of SWANA's Waste-to-Energy (WTE) Technical Division. The Division has a number of key programs and products to accomplish its goal of ensuring that this technology, and other emerging waste combustion technologies, are recognized for what they are – some of the cleanest and most responsible forms of waste management.



The Division provides industry professionals with the information and professional contacts they need to improve their plant operations while encouraging innovation to enhance WTE's role as a viable option for solid waste management and an expanded source for clean, reliable, and renewable power.

As Vice Director, Mr. Reardon is a member of the Division's Executive Committee and Steering Committee. Key responsibilities, in addition to contributing to meetings and quarterly teleconferences, include assisting Director Chantal Babensee (Residuals Management Division Manager, Metro Vancouver, BC, Canada) in fulfilling her duties, and mentoring Committee Chairs in completion of their duties. When his term expires, Mr. Reardon will advance into the position of Division Director (with approval of a majority of the Division Steering Committee) for a term of two years.

"In the past few years, I've moderated WTE-related sessions and made presentations on the latest on WTE and Conversion Technologies at various events, including WASTECON and SWANA's Senior Executive Seminar," said Reardon. "I am honored and excited at the prospect of working closely with the Division Director in advancing and expanding the division's program."

Recent GBB Assignments

In the past few months, GBB has been selected for several new assignments, including:

- **Multi-Family Services Review**
City of Charlotte, NC
- **Assist in Evaluating Development Options for the Cleveland Recycling and Energy Generation Center Project**
City of Cleveland, OH
- **Review of Proposals for Municipal Solid Waste Services**
City of Greensboro, NC
- **Solid Waste Enterprise Fund Development Assistance**
Northeast Maryland Waste Disposal Authority, MD (for City of Baltimore)
- **Waste Reduction and Recycling Strategic Planning; Assistance in Implementation of Renewable Energy Project**
Prince William County, VA

We very much appreciate the opportunity to assist these clients with their needs.



New GBB Corporate Brochure Hot Off the Presses!

The newly revised version of GBB's corporate brochure is out and includes new and updated information about the firm and key projects, and snapshots on each GBB Officer, providing a glimpse on the root for their passion for solid waste management.

View a PDF version or request a hardcopy at: gbbinc.com/brochure.shtml

Toss It, Baby: Single-Stream Recycling Official Music Video

Santee Cooper, South Carolina's State-Owned Electric and Water Utility, produced an entertaining music video to promote single-stream recycling which was partly filmed at the Horry County Solid Waste Authority, Inc. Material Recycling Facility: "Toss It, Baby!"

See the video at: www.tinyurl.com/TossItBaby



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John Carlton & Chris Lund Join GBB Ownership Group; Carlton Promoted to Senior VP

John Carlton, PE, BCEE and Chris Lund, PE, have joined GBB co-founders Harvey Gershman and Bob Brickner in the ownership group of the firm. Mr. Carlton has also been promoted to Senior Vice President.

Mr. Carlton joined GBB as Vice President in December 2011. He has more than 22 years of solid waste management experience, both as a consultant and in executive positions for public-sector authorities.

Mr. Lund joined GBB in April 2008 as a Senior Project Engineer and was promoted to Vice President in August 2009.

Press Release at: www.gbbinc.com/press_releases/ownership.htm



GBB Continues to Expand

Kate Vasquez—Senior Consultant

Ms. Vasquez has joined GBB as Senior Consultant. She has spent over 10 years in the public sector with a focus on recycling, solid waste reduction, and solid waste management, gaining valuable expertise in strategic planning, regulatory implementation, events planning, and public relations. She is accomplished in communications with residents and businesses, elected officials, and the regulated community; research, reporting, and presentation; and, legislative analysis. She is also very actively involved in several national, regional, and local professional associations dedicated to the promotion of recycling and the advancement of environmentally and economically sound solid waste management practices.

Press Release at: www.bbinc.com/press_releases/kate-vasquez.htm



Stephen Simmons — Principal Associate

Based in the Philadelphia area, Mr. Simmons joins the firm as Principal Associate. He has over 30 years of experience with leading companies in the solid waste management and renewable energy fields, and brings a broad range of skills and expertise to GBB clients, including: project and construction management; technology assessment and selection; waste shed and energy market evaluation, sales, and contract negotiation; facility due diligence and acquisition management; environmental assessment and permit management; and budgeting and cost control.

Press Release at: www.gbbinc.com/press_releases/simmons.htm

