



Mid-Atlantic Chapter Solid Waste Association of North America

SOLID WASTE NEWS for Waste Professionals

January 23, 2015

Chapter Officers & Directors

Congratulations to our newly elected FY 2015 Chapter officers and directors. For those of you leaving the Board, we thank you for generously contributing your time and effort. For those of you moving on to other positions within the Board, thank you for your continued commitment. We look forward to another successful and exciting year for the Chapter.

Officers & Directors FY 2015

President - Mark Gutberlet (EA Engineering) **410-771-4950**
Vice President - Andrew Kays (NE MD Waste Disp. Auth.) **410-333-2730**
Secretary - Tim Ford (Maryland Environmental Service) **410-729-8370**
Treasurer - Carrie Pendleton (Geosyntec Consultants-MD) **410-381-4333**
Past President - Niti Blackwell (Howard County, MD) **410-313-6418**
IB Representative - Dana Murray (SCS Engineers) **703-471-6150**
Director - Peter Bieniek (Cecil County, MD) **410-996-6275**
Director - Thomas Hilton (Harford County, MD) **410-638-3513**
Director - Stephen Lezinski (D.C., Dept. of Public Works) **202-698-4692**
Director - Stephen Lippy (Baltimore County, MD-retired) **410-296-9150**
Director - Jessica Moore (University of Maryland) **301-405-7460**
Director - Jonathan Meyers (ARM Group, Inc.) **410-290-7775**
Director - John Neyman (Republic Services) **302-658-4097**
Director - Robin Roddy (Delaware Solid Waste Authority) **302-764-5385**
Director - Mehal Trivedi (Frederick County, MD) **301-600-3043**

Officers & Directors FY 2014

President - Niti Blackwell (Howard County, MD)
Vice President - Mark Gutberlet (EA Engineering)
Secretary - Andrew Kays (NE MD Waste Disp. Auth.)
Treasurer - Carrie Pendleton (Geosyntec)
Past President - Robin Roddy (DE SW Authority)
IB Representative - Dana Murray (SCS Engineers)
Director - Peter Bieniek (Cecil County, MD)
Director - Hallie Clemm (DC DPW)
Director - Tim Ford (MD Environmental Service)
Director - Thomas Hilton (Harford County, MD)
Director - Stephen Lezinski (D.C., DPW)
Director - Stephen Lippy (Baltimore Co., MD-retired)
Director - Jonathan Meyers (ARM Group, Inc.)
Director - John Neyman (Republic Services)
Director - Mehal Trivedi (Frederick County, MD)

SWANA Mission Statement:

"Advancing the practice of environmentally and economically sound management of municipal solid waste in North America."

Harford Waste Disposal Center Construction Projects

By: **Thomas C. Hilton, P.E.**
Harford County, MD

Following the Board of Director's meeting on Thursday, November 20th, SWANA members were provided a tour of two concurrent construction projects at the Harford Waste Disposal Center in Harford County. When complete, this project will result in a new 11.5-acre landfill cell for disposal of municipal solid waste, and will also provide a closure cap on a 39-acre landfill.

The Harford Waste Disposal Center (HWDC) is the location of the County's only operating landfill. Initial solid waste disposal activities began on the property in 1956 when the County began operation of the Scarboro Landfill. This unlined landfill served the County until 1986 when a permit was obtained to construct new landfill cells at the site. HWDC was among the first landfills in Maryland to be constructed with lined cells. The first of the cells was placed in operation in 1987. Ultimately, ten cells designated A through J, comprising 39-acres, operated until 2014.

A new permit was received in 2007, which allows for 70 additional acres of landfill cells. The first 13-acre cell, designated N1, was placed in

operation in September 2011. The cell N1 construction project included installation of double-walled HDPE leachate sewers, two 220,000 gallon glass lined leachate storage tanks, HDPE gas headers, and expansion of the on-site road network. The project was designed by Malcolm-Pirnie (now Arcadis) and constructed by Dixie Construction, Inc.

EA Engineering, Science and Technology was selected to provide engineering services for the current project. EA's scope includes geotechnical and geophysical investigations, design of the new cell, preparation of construction bid documents, and engineering oversight of the construction phase. EA is also providing a similar scope of services for the project to cap cells A-J of the closed landfill. Construction of the landfill cell and cap were bid as a single project. The contract was awarded to Dixie Construction of Churchville, Maryland.

Construction of cell N2 began in April 2014. Excavation of approximately 350,000 cubic yards and soil and rock was required to attain cell floor subgrade elevations. The cell liner

system consists of a 24-inch thick layer of compacted clay with a hydraulic conductivity of less than 1×10^{-7} cm/sec which will be overlain by 60-mil textured HDPE geomembrane. Because suitable low permeability soil is not available on site, the nearly 38,000 cubic yards of clay were hauled from a source located approximately 18 miles from the landfill. A 16-ounce nonwoven geotextile will be installed as a cushion over the geomembrane, with a 12-inch thick layer of drainage stone to promote flow of leachate to the low point of the cell. An 8-ounce nonwoven geotextile and a layer of cushion soil complete the profile of the overall liner system. Leachate will drain to a pair of 8-inch diameter HDPE leachate collector pipes which convey the flow to an existing leachate gravity sewer. A bootless liner penetration will be installed where the pipe passes through the HDPE geomembrane.

Concurrent with construction of cell N2, the grading and cap system installation for cells A-J is on-going. After clearing and grubbing the fill area, relocation of waste from portions of the site has been required to achieve the proper final grades. The cap system includes an 8-ounce nonwoven geotextile cushion and 40-mil textured LLDPE geomembrane installed on the prepared subgrade of the landfill. A geocomposite installed over the geomembrane will promote drainage, while a vegetated 24-inch soil cover will protect the geomembrane and stabilize the overall capping system.

HWDC continues on page 2



A landfill gas collection system is being constructed to control emissions. Thirty five landfill gas extraction wells have been drilled into the waste layer of cells A-J. The wells will be connected by a network of HDPE piping which will be installed in the soil cover. The final gas control system will include a pair of blowers and an enclosed flare to treat the gas collection from cells A-J. The gas control system will also treat landfill gas collected from cells N1 and N2.

Other aspects of the project include upgrades to the leachate collection system from cells A-J, improvements to the facility's stormwater management system, and expansion of the on-site road network. The project is expected to be completed in July 2015.



SWANA Mid-Atlantic Chapter 2014 Training Course Recap December 2-4, 2014, Harford County, MD

The SWANA Mid-Atlantic Chapter held the Manager of Composting Systems training course on December 2-4, 2014 at the HEAT Center in Harford County, MD. The instructor was Pete Bieniek of Cecil County. There were seven (7) attendees and five (5) of whom that took the certification exam. All five (5) attendees passed the exam.

2015 Mid-Atlantic Chapter Scholarship - May 1, 2015

By: *Mehal Trivedi*
Frederick County, MD

The Mid-Atlantic Chapter Scholarship Program will continue in 2015 with a submission deadline of May 1, 2015. For eligibility, application forms, and instructions, please visit the Website at www.swana-midatl.org or call Mehal Trivedi at 301-600-3043. Also, refer to the [Scholarship Eligibility Criteria](#) table on the website that summarizes the available scholarships at the Chapter and International level, based on a candidate's relationship to the Chapter and the year of college they are entering. A candidate must be sponsored by a Mid-Atlantic Chapter Member, or shall be a Mid-Atlantic Chapter Student Member, and in good standing at the time of application, selection, and award.

The list of the possible scholarships include:

- | | |
|--------------|--|
| Category I | Graduating High School Senior: Award \$500 - \$1,000 |
| Category IA | College/University Students Entering Sophomore Year: Award \$500 - \$1,000 |
| Category II | College/University Upper Division Undergraduate: Award \$750 - \$1,000 |
| Category III | University Graduate Student: Award - \$750-\$1,000 |

US Composting Council CCREF Sustainable Student Scholarship Award - \$1,000

The Composting Council Research and Education Foundation (CCREF) will be awarding a \$1,000 Scholarship to two high school students pursuing their interests within the field of environmental science, environmental studies, engineering, biological or the physical sciences. For additional information regarding the application process, please visit their website at: <http://compostingcouncil.org/sustainable-student/>. Submissions will be accepted until midnight on February 15th.

Mid-Atlantic Young Professional Group Quarterly Meeting and Tour

By: *Lynsey Kocenko, P.E.*
Delaware Solid Waste Authority

The Mid-Atlantic Young Professional (YP) group held their quarterly meeting on October 22, 2014 at the EA Engineering Science and Technology, Inc. office in Abingdon, MD. The YP group is working on some exciting things over the next several months, including a new YP webpage, quarterly meetings and tours, webinars and networking events.

Following the meeting, the YP group had the opportunity to tour the Harford Waste-to-Energy Facility in Joppa, Maryland. The Harford County Waste-to-Energy Facility began operations in January of 1988. This facility has the capacity to process 360 tons per day of municipal solid waste, equating to an annual average of 120,000 tons. The Harford facility has four incineration systems creating approximately 5,300 pounds of steam per ton. Below are two photos of the YP's at the facility tour, as well as a photo of the Harford Waste-to-Energy Facility.

In order for the YP group to be a success, we need everyone's help to promote participation in the group by giving YPs within your organization an opportunity to participate. This can range from joining SWANA to participating in the quarterly meetings and tours. Any way in which current SWANA professionals are willing to support the YP group will be greatly appreciated.

If you are interested in becoming a YP member, know of someone that would be interested in becoming a YP Member, or are interested in attending the next meeting and tour, please contact Laura Jo Oakes loakes@eaest.com, SWANA Mid-Atlantic Chapter Liaison.



2015 Event Schedule

SWANApalooza – March 16-19, 2015, New Orleans, Louisiana

Landfill Gas and Biogas Symposium Co-located with the Landfill Symposium, along with The Road to Zero Waste Conference and a Landfill Methane Outreach Program Workshop

- The 38th Annual Landfill Gas and Biogas Symposium takes an in-depth look at where the industry is going, with presentations applicable to both small and large facilities. You'll find the latest information on regulatory issues, financial planning, high BTU and gas treatment as well as GHGs, gas generation modeling and migration control. You'll get information and resources to improve the sustainability and economic performance of your landfill gas and biogas projects.
- The Co-located 19th Annual SWANA Landfill Symposium features the latest issues facing managers who have found that a landfill property now encompasses many aspects of waste management other than just running the landfill. Topics include financial challenges, leachate management challenges, bioreactor landfill challenges, long-term management challenges, public perception challenges, safety challenges, design challenges and other cutting-edge landfill topics.
- The annual SWANA Road to Zero Waste Conference, now part of "SWANApalooza," takes an in-depth look at dealing with financial, social and system challenges related to achieving Zero Waste goals – the three general topics on which last year's attendees wanted to hear more. The mix of presenters will cover topics ranging from long-term financial planning to case studies of specific financial and operational approaches. A panel of industry leaders will exchange ideas on when Zero Waste is "worth it."
- The U.S. EPA's Landfill Methane Outreach Program (LMOP) is collaborating with SWANA to organize a workshop in conjunction with the 38th Annual Landfill Gas and Biogas Symposium. The half-day LMOP National Landfill Gas Energy Workshop will be held on **Thursday, March 19, 2015**. The LMOP workshop will highlight recent successes in landfill gas energy projects and include recognition of the 2014 LMOP Project and Partner of the Year awardees. LMOP is not hosting a separate conference in 2015.

SWANA Mid-Atlantic Chapter 2015 Training Course – Tentatively April 7-10, 2015, Harford County, Maryland

The next training course sponsored by the SWANA Mid-Atlantic Chapter, *Manager of Landfill Operations (MOLO)*, is tentatively scheduled to occur on April 7-10, 2015. As more details are confirmed, we will let you know by providing a course announcement flyer.

NAWTEC 2015 Conference – April 29-May 1, 2015, Tampa, Florida

NAWTEC is sponsored by SWANA and the Energy Recovery Council (ERC), in cooperation with the Waste-to-Energy Research and Technology Council (WTER) and the Air and Waste Management Association (AWMA). Energy recovery and materials recovery are critical parts of a circular economy. At NAWTEC 23, it's time to take a fresh look at how the waste-to-energy industry is evolving in the 21st Century. Join thought leaders in a conversation about how to extract maximum value from waste through a variety of technologies.

SWANA Mid-Atlantic Chapter 2015 Scholarship – May 1, 2015

The scholarship program will continue in 2015 with a submission deadline of May 1, 2015. For eligibility, application forms and instructions, please visit the Website at www.swana-midatl.org or call Mehal Trivedi at (301) 600-3043.

SWANA Mid-Atlantic Regional 2015 ROAD-E-O – June 5, 2015

The Keystone Chapter of SWANA is pleased to announce that the Road-E-O is back in PA! The SWANA Mid-Atlantic Regional Road-E-O is scheduled to be held on June 5, 2015 at the Northern Tier Solid Waste Authority's Landfill #1 in Blossburg, PA.

The Meet & Greet Banquet will be held in the evening of June 4, 2015 at the Corey Creek Country Club in Mansfield, PA. Hotel rooms will also be available in Mansfield, PA.

The Northern Tier Solid Waste Authority is looking forward to hosting the Road-E-O with the help of the Clinton County Solid Waste Authority. Sponsorships for all the different phases of the Road-E-O are welcomed. Watch the Keystone Chapter of SWANA's website for information about registration for competitors and volunteers <http://keystoneswana.org/>.

MRN/SWANA Mid-Atlantic Chapter 2015 Conference – June 25-26, 2015

The annual conference is scheduled for June 25-26, 2015 at the Maritime Institute in Linthicum Heights, Maryland. Over 160 recycling and solid waste management professionals registered for the 2014 Conference and 19 exhibitors displayed new products and services.

2015 WASTECON – August 25-27, 2015

The 53rd Annual WASTECON® conference will take place in Orlando, Florida, from August 25-27, 2015. WASTECON® is the premier solid waste industry-focused conference that brings you the latest news, education, advancements and products to help you achieve success in your business, all in one setting.

Reminders / Wanted

- ◆ "Reporters"/writers for our Chapter newsletter.
- ◆ Important Websites to Remember: www.swana.org, www.swana-midatl.org and www.mdrecycles.org.
- ◆ Training the Trainers: Contact a Board member if interested in being trained to be a trainer for a SWANA course.
- ◆ SWANA Web Sessions: If your organization presents e-Sessions, make them a Chapter event so that all attendees can get CEU's. Contact Steve Lippy, Dana Murray or Shirl Wright.
- ◆ Job Vacancies in your Organization: Contact swright@nmwda.org for inclusion in our Chapter newsletter and website.
- ◆ Articles, information, recent/on-going projects of interest, active purchase orders, etc.: Contact swright@nmwda.org to be placed in our Chapter newsletter.
- ◆ Scholarship Sponsors: Contact Steve Lippy, Mehal Trivedi or Hallie Clemm.
- ◆ Name(s) of Prospective SWANA Members: Contact either our Chapter Membership Chair, Tim Ford tford@menv.com or direct the prospective member to our Chapter website www.swana-midatl.org or SWANA's website www.swana.org.
- ◆ American Academy of Environmental Engineers and Scientists: If you are an environmental engineer or environmental scientist, you are eligible to become a member or to be certified in solid waste management by the American Academy of Environmental Engineers and Scientists. See www.swana-midatl.org or www.aees.org.
- ◆ Newsletter Ads: These are business card size ads only (2" x 3.5"); \$100 for 4 issues. Send your ad in a JPG or PDF file to swright@nmwda.org. Please make your check payable to: Mid-Atlantic Chapter of SWANA and mail to the attention of Shirl Wright at NMWDA, 100 S. Charles Street, Tower II - Suite 402, Baltimore, MD 21201-2705.

New Orleans, LA • March 16-19, 2015

SWANApalooza

SWANA
Training
& Exam
Center

Road
to
Zero
Waste
Conference

Landfill
Gas
& Biogas
Symposium

Landfill
Symposium

LMOP
(Landfill Methane
Outreach Program)
Workshop

What's a SWANApalooza? *5 Key Solid Waste Industry Events in 1 Location:*

- SWANA's Landfill Gas & Biogas Symposium • Landfill Symposium • Road to Zero Waste Conference
- U.S. EPA Landfill Methane Outreach Program's Workshop • SWANA Spring Training & Exam Center

Use the Discount Code below to get your Best SWANApalooza Savings!

Terms & Conditions for all savings programs:

Does not apply to previously purchased registrations.
Cannot be combined with any other offer.
No YP, Elected Official, Speaker, Student, Exhibitor, Sponsor.

MARDI200: \$200 off Full Conference (FC) or FC/Training Landfill or Landfill Gas & Biogas Symposia registration. Offer valid: 1/20 - 2/17/2015

STC100: \$100 off Spring Training Center or FC/Training Combo registration. Offer valid: 1/20 - 2/17/2015

MG100: \$150 off FC Road to Zero Waste registration. Offer valid: 1/20 - 2/17/2015



SWANA
SOLID WASTE ASSOCIATION
of North America

Mid-Atlantic Chapter
Solid Waste Association of North America

c/o Northeast MD Waste Disposal Authority
Tower II - Suite 402, 100 South Charles Street
Baltimore, Maryland 21201-2705

Stephen T. Lezinski, Newsletter Editor
stephen.lezinski@dc.gov



We're on the Web!
www.swana-midatl.org

January 23, 2015

Page 6

The CompuWeigh System

Software That Outweighs the Competition



410.329.1300
paradigmsoftware.com

PARADIGMSOFTWARE
The Standard in Weighing and Routing Software

SWANA Guiding Principle:

"Local government is responsible for municipal solid waste management, but not necessarily the ownership and/or operation of municipal solid waste management systems."