



Mid-Atlantic Chapter Solid Waste Association of North America

SOLID WASTE NEWS for Waste Professionals

June 28, 2016

SWANA Mid-Atlantic Chapter 2016 Scholarships

By: *Mehal Trivedi*
Frederick County, MD

The Chapter received three applications for the 2016 Scholarship Program. The scholarship amounts received by each applicant are noted below:

Category	Applicant	Amount	Education/College
1	Joshua Fawole	\$1,000	Loyola University
2	Casey Marker	\$2,000	University of North Carolina
2	Kristen Fawole	\$1,000	Cornell University

Casey Marker received the highest score by the Chapter Evaluation Committee and will receive a \$2,000 George L. Winfield Memorial Scholarship Award. As a category 2 winner, Casey plans to major in Marine Biology at the University of North Carolina, Wilmington. She is the daughter of Craig and Nancy Marker. Mr. Craig Marker, P.E. works for DPW, Cecil County, MD.

The following two winners were each awarded \$1,000: Joshua Fawole and Kristen Fawole.

Joshua Fawole and Casey Marker's applications were also forwarded to SWANA International for consideration for the Grant H. Flint Scholarship Award for Categories 1 and 2, respectively.

Excerpts from each of the three winning essays can be found on pages 2 and 3 of this newsletter.

The Chapter invited all scholarship recipients or family members to attend the Tuesday lunch on June 21, at the MRN/SWANA Mid-Atlantic 2016 Annual Conference, to receive their scholarship award. Congratulations to all the winners!



Casey Marker accepts Scholarship Award from Mehal Trivedi.



Deji Fawole accepts Scholarship Awards on behalf of his children, Joshua and Kristen, from Mehal Trivedi.

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Frederick County, MD

SWANA Mission Statement:

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

Casey Marker Receives \$2,000 George L. Winfield Memorial Scholarship Award

Casey Marker received the highest score by the Chapter Evaluation Committee and will receive the \$2,000 George L. Winfield Memorial Scholarship Award. As a category 2 winner, Casey plans to major in Marine Biology at the University of North Carolina, Wilmington. She is the daughter of Craig and Nancy Marker. Mr. Craig Marker, P.E. works for DPW, Cecil County, MD.

Excerpts from Casey's award winning essay are copied below:

Solid Waste (trash, garbage, manufacturing waste) is part of the world we live in. Managing and preventing the generation of waste in the US is a full time job for many in the private and public sector. Recently management of our food waste has become a topic of concern. Even though 45 million Americans don't have enough to eat, our country wastes an estimated 40 percent of its food.

Food waste is the single largest component going into municipal landfills where it quickly generates methane and contributes to climate change.

On June 4, 2013 the US Department of Agriculture and the US Environmental Protection Agency launched the US Food Waste challenge, calling on entities across the food chain-farms agricultural processors, food manufacturers, grocery stores, restaurants, universities, schools and local governments to join efforts to: reduce, recover and/or recycle food waste.

Meanwhile in the private sector Food Banks and other Food exchange entities continue to create opportunity for reducing food waste. MEANS (Matching Excess and Needs for Stability) is an interactive site that helps reduce food waste and feed the hungry by connecting thousands of food pantries, soup kitchens and other nonprofit groups with donors giving away excess food. Registered users post to the site what food they want to get rid of and MEANS immediately notifies registered food banks and pantries, which can claim the donation.

It is imperative in the next few years that the Solid Waste industry, local government and non-profits focus on the prevention and management of food waste, so that the millennials have a food management system that prevents impact on human health and the environment.



Casey Marker

2017 Scholarship Information

The SWANA Mid-Atlantic Chapter is a believer in supporting the higher education goals of today's youth. The Chapter offers college scholarships to eligible students working toward undergraduate or graduate college degrees. In addition, the Chapter will submit the Application of the most-qualified, eligible candidate for the [Grant H. Flint Scholarship Awards Program](#) administered by SWANA International. The Deadline for applying for scholarships is May 1, 2017.

The Chapter is currently looking for an organization to sponsor the highest scoring candidate. The sponsor could be any organization and can suggest a name to be given to the award. The Chapter will accept an annual sponsorship of either \$500, \$1,000, \$1,500 or \$2,000.

Please visit the Chapter's website, www.swana-midatl.org, for additional information, instructions and application forms. If you have any questions, please contact Mehal Trivedi at (301) 600-3043 or mtrivedi@frederickcountymd.gov.

\$1,000 Scholarship Winners

Joshua Fawole received a \$1,000 Scholarship and will be attending Loyola University. Joshua is the son of Deji Fawole, SCS Engineers. Excerpts from Joshua's award winning essay are copied below:

It is known that Americans are great consumers of domestic products and produce loads upon loads of trash daily. The question is: Where exactly does the trash go? Several Americans simply "throw" trash away, or watch the garbage man dispose of their waste into a truck and haul it to some unknown location. To clarify the process, an accumulation of trash is taken to a landfill where solid, discarded material that serves no purpose in reproducing for another use is processed and taken care of. The collecting, treating, and disposing of such material is called Solid Waste Management.

If garbage is improperly disposed of, the solid waste can create unsanitary conditions and can easily lead to pollution, a more commonly known problem about excess trash. In addition, vector-borne disease (disease carried out through rodents and insects) becomes more vulnerable to spreading across the area.

With a defined increase in population, the amount of trash accumulated is guaranteed to increase as well, and this introduces more challenges to those individuals dealing with the solid waste (specific companies and contractors). One of the most important concerns about solid waste is the effect of it on public health.

To address the future, it could be possible that all materials that have been used with a real purpose can be reused. To reiterate, little to no trash will be existent anymore. This concept is already underway in San Francisco, as they are aiming to become the country's first zero waste city.



Joshua Fawole

Kristen Fawole received a \$1,000 Scholarship and will be attending Cornell University. Kristen is the daughter of Deji Fawole, SCS Engineers. Excerpts from Kristen's award winning essay are copied below:

Solid waste is defined as garbage, refuses, sludges, nonhazardous industrial wastes and other discarded materials. With millions of households and businesses producing waste daily, a solid waste management system is essential, although creating such a method on an international level is problematic. The current system most developed nations have today utilizes an approach with four core components: source reduction or waste prevention, recycling, combustion, and landfills, which can be structured to fit the needs of local communities

According to the EPA, in 2012, the recycling of about 7.5 million tons of metals has reduced the greenhouse gas emissions by 20 million metric tons of CO₂. Solid waste generation per person per day is 4.38 pounds, the lowest it has been since the 1980's and the disposal of waste to landfills decreased by about 40% since 1980.

Although much progress has been made, much more action needs to be taken, especially in developing and least developed countries. Though developed countries have and continue to offer financial support to struggling nations, the difference in mindset about sustainable solid waste management is a persistent dilemma.

It is no secret that mishandling solid waste leads to pollution, damaging the environment and exacerbating the global warming and climate change issue. With the recent Paris climate talks and agreements, and the growing emphasis on keeping the Earth's global temperature below 2 degrees Celsius, it is evident that the mismanagement of solid waste will be brought to the forefront in the near future.

In conclusion, we need the Earth much more than the Earth needs us. Now, more than ever, the future of forthcoming generations is in jeopardy. This is not just a problem for engineers. This is not just a problem for environmentalists. This is a problem for everyone; for doctors and for lawyers, for CEOs and for small start-ups, for bakers and for fashion designers. As long as we try to survive, the global solid waste management crisis must be entirely addressed.



Kristen Fawole

2016 Conference Recap

“Over 170 solid waste management and recycling professionals convened on Tuesday & Wednesday, June 21-22 at the Turf Valley Conference Center in Ellicott City, MD to learn about and discuss the hottest topics in the industry including changing waste management and recycling models, policy and regulation, commodities markets, new technologies and more. While all shared a common desire to minimize waste to landfill, opinions sometimes differed sharply on how to get there. Spirited discussions arose around the efficacy of mixed waste processing facilities, the validity of "Glass is Trash" and regulatory vs. free market solutions to organics processing.” <http://marylandrecyclingnetwork.org/2016-conference-recap>



Legislative Updates

By: *Kristyn Oldendorf*
Office of Legislative Affairs, Baltimore City, DPW

SWANA

SWANA has developed a survey designed for municipalities to confidentially report worksite accidents and injuries from 2015. Data will be gathered on collection and/or post-collection accidents and injuries such as frequency of events among municipal solid waste collection workers and vehicles. Collected incident data will be analyzed to pinpoint trends that can be examined to help improve safety. SWANA will present its findings at WASTECON 2016 in Indianapolis, IN and release the completed survey on **SWANA's** website.

FEDERAL - EPA

April 21 - Clean Water Rule - Opponents of the Clean Water Rule, including states and industry groups, had challenged the rule at both the district and appellate court levels. In February, a panel of the Sixth Circuit Court found that the proper jurisdiction is the appellate court. These opponents asked for a review of the decision to reverse that ruling and kick the cases back down to the district courts. On April 21, the full Sixth Circuit Court declined to review the panel's findings and thus established itself as the court to hear multiple challenges to the rule.

May 20 - Proposed Renewable Fuel Standards - The EPA is required to set renewable fuel percentage standards every year. This action proposes the annual percentage standards for cellulosic biofuel, biomass-based diesel, advanced biofuel, and total renewable fuel that would apply to all motor vehicle gasoline and diesel produced or imported in the year 2017. The proposed volume requirement for cellulosic biofuel, which includes LFG and biogas to transportation fuels, has been increased by 35% over 2016 levels. Total renewable fuel volumes under the proposal would grow by nearly 700 million gallons between 2016 and 2017. A pre-publication version of the rule is available from EPA. Once it has been published in the *Federal Register* and comments are accepted, SWANA is likely to comment in support of the increase.

FEDERAL – OSHA

April 12 - Improve Tracking of Workplace Injuries and Illnesses - The U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) has published a final rule that will require many employers to annually submit information about their workplace injuries and illnesses which will then be posted to the OSHA website. The rule will require companies with 250 or more employees that are currently required to keep OSHA injury and illness records to electronically submit information from their OSHA 300 Logs, 300A Summaries, and 301 Injury and Illness Incident Reports to the agency. Identifying information will be removed before the data is made available. The rule also requires employers to inform employees of their rights to report injuries and illnesses on the job, as well as their freedom from retaliation when reporting.

FEDERAL - The U.S. Department of Labor

May 23 - The Fair Labor Standards Act - The U.S. Department of Labor released a final rule that will raise the standard to be met in order for employees to be classified as exempt from overtime requirements. The annual pay amount will increase from \$23,660 a year (\$455 a week), an amount that was set and left unchanged for the past 10 years. Under the new rule, full time employees must earn the equivalent of \$47,476 per year (\$913 a week) and meet the "duties test" before employers can consider them for exemption from overtime pay. With the changes, which take effect December 1st, the threshold amount will automatically update every 3 years to remain consistent with compensation standards published by the Bureau of Labor Statistics. The first automatic increase would go into effect January 1, 2020. This includes public sector employees meaning that full-time salaried employees of county government earning between \$23,660 and \$47,476 per year will become eligible for additional overtime pay.

STATE – MARYLAND (MDE)

March 18 – MDE announced that the permit for the proposed Energy Answers trash-to-energy plant in Baltimore was no longer valid.

May 2 – Annual Clean Air Progress Report – MDE released its annual report, which stated that, for the first time in three decades, Maryland is "very close" to meeting all federal air quality standards.

Legislative Updates continues on page 6

STATE – MARYLAND (Legislative)

The Legislative Session ended on April 11th. Although there were an unusually high number of bills introduced this legislative session, many did not pass through committee:

Anaerobic Digestion - HB61 - Would have provided MDE with the authority to (1) create regulations to govern the permitting and operation of anaerobic digesters and (2) create regulations to govern the permitting and operation of material recovery facilities. It also expands the definition of “solid waste.” The bill died in Senate Committee.

Community Cleanup and Greening Act of 2016 - HB31/SB57 - Similar to the bag bill that was introduced last year (HB 0551-2015 and SB0621-2015), except that instead of a ban on plastic bags the proposed legislation would prohibit the free distribution of plastic bags. The House bill received an unfavorable committee report and did not pass.

Maryland Redeemable Beverage Container Recycling Refund and Litter Reduction Act Program - SB367/HB862 - Would have created a bottle bill redemption program, to be run by Maryland Environmental Service (MES). This bill did not pass.

Northeast Maryland Waste Disposal Authority - SB105 - Would have changed the name of the Authority to be the Maryland Regional Resource Management Authority and would have given it authorization to construct, operate, etc. a resource recovery park. The bill passed the Senate but died in House committee.

Paint Stewardship Program - SB201 - Would have required paint producers or a representative organization to create and submit a plan for a Paint Stewardship Program to MDE by April 2017. This bill died in committee in both chambers.

Yard Waste and Food Residuals Diversion and Infrastructure Task Force - HB743 - Would have established a Task Force to study composting problems with facilities and incentives to improve composting. This bill died in committee.

Environment - Mattress Stewardship Program - HB1117 - Would have required specified producers or a representative organization to submit a plan for the establishment of a Mattress Stewardship Program to the Department of the Environment on or before July 1, 2017. This bill died in House committee.

Public Utilities - Renewable Energy Portfolio Standard - Eligible Sources - SB867 and HB1287 - Would have prohibited specified Tier 1 renewable sources from being eligible for inclusion in meeting the renewable energy portfolio standard on and after January 1, 2018. It would also remove the limit on the percentage of offshore wind energy that may be used to meet the portfolio standard. Both received unfavorable votes, HB 1287 was withdrawn and SB867 failed.

Clean Energy Jobs - Renewable Energy Portfolio Standard Revisions - SB921 and HB1106 - Would establish and provide funding for a Clean Energy Workforce Account in the Maryland EARN Program. The Account would help train and prepare more Marylanders for careers in clean energy such as solar and wind. The Bill also provides for an increase in Maryland’s Renewable Portfolio Standard to 25% by 2020. Senate Bill passed and returned; House Bill enrolled.

STATE - DELAWARE

General Assembly is in session.

Bag Bill - HB202 would require large retailers to charge 5 cents for each carryout bag (paper or plastic). This bill was reported out of committee on May 10. Amendments to the bill required that of the 5 cent fee, 2 cents be deposited in the Delaware Recycling Fund and 3 cents be deposited in the Hazardous Substance Cleanup Fund. The amended bill also sunsets the 5 cent charge after 5 years and replaces it instead with a ban on single-use bags for large stores. The bill would still need to be passed by the House and sent to the Senate.

DISTRICT OF COLUMBIA

No current regulatory or legislative updates.

May 18 - A Path to Zero Waste Summit was held, co-sponsored by DC DPW and DOEE.

April 27 - Christopher J. Shorter was confirmed as the new Director of the Department of Public Works for DC.

NEWS UPDATES

March 31 - Interesting interview in the Atlantic with the author of a new book “Waste Away: Working and Living with a North American Landfill.”

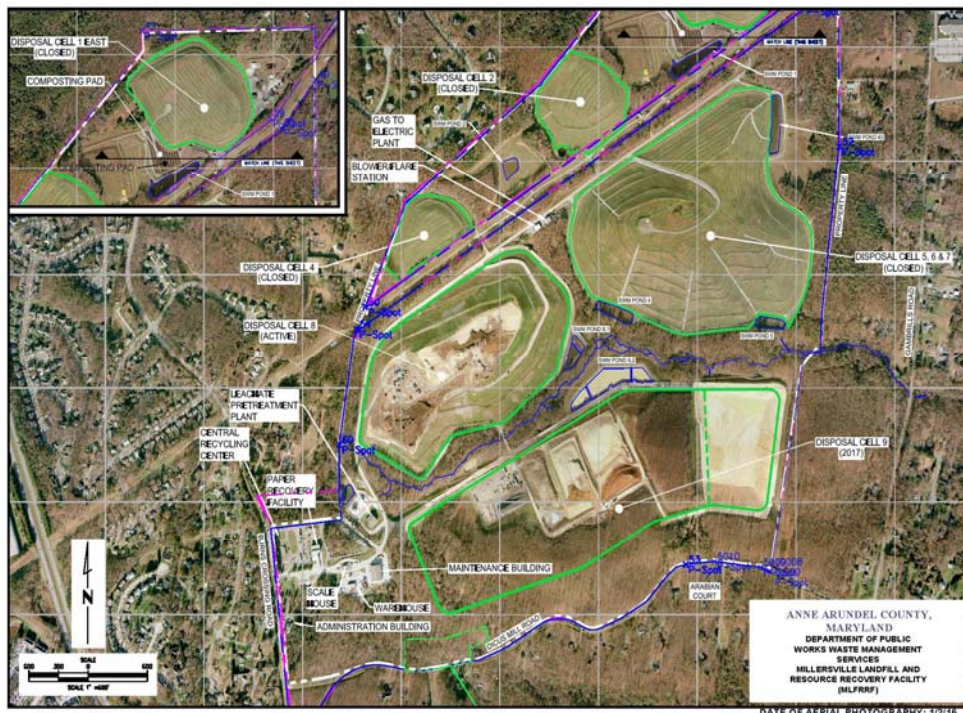
SWANA Mid-Atlantic Chapter Site Tour Millersville Landfill and Resource Recovery Facility

By: Craig Marker P.E.

Engineering & Construction Division, Cecil County, DPW

On May 19, 2016, the Mid-Atlantic Chapter of SWANA attended a site tour at the Millersville Landfill and Resource Recovery Facility (MLFRRF) located in Anne Arundel County, Maryland. The tour was attended by over 35 SWANA members and guests and included an overview of the recycling and disposal operations, landfill gas to electricity (LFGE) facility, composting operation and the on-going construction of the new Cell 9 disposal area.

As explained in a presentation given by Stephen Krajcsik, Solid Waste Operations Administrator, the Anne Arundel County Bureau of Waste Management Services provides curbside collection of recyclables, yard waste, and trash to over 158,000 customers in the County and operates 4 full service collection facilities including the MLFRRF. In FY 2016, the Bureau managed approximately 336,000 tons of municipal solid waste (MSW), of which 45% is recycled and the remaining 55% is either disposed at the Millersville Landfill or diverted to an out-of-County disposal facility. The Bureau employs a staff of 90 full time employees allocated across 5 divisions, including Community Collections, Recycling, Disposal & Maintenance, Scalehouse and Financial Services.



Millersville Landfill and Resource Recovery Facility

The MLFRRF is a 565-acre site that includes 7 closed landfill cells, 1 active landfill disposal cell, a residential recycling center, a cardboard baling operation, a 3.5 acre composting operation (planned to be expanded to 8 acres in the future), and a 3.2 MW LFGE facility. In addition, the Bureau is currently in the process of constructing Subcell 9.1, the first of five subcells in a planned 85 acre landfill disposal cell (i.e. Cell 9). Cell 9 is the last permitted disposal cell at the landfill and is projected to provide landfill capacity at the MLFRRF through 2043.



Cell 9 Construction Area



Members of SWANA Mid-Atlantic Chapter Observe Cell 9.1 Construction

Millersville Landfill and Resource Recovery Facility Tour continues on page 8

Prior to taking a tour of the site, Byran York, Regional Construction Services Manager for Geosyntec Consultants, gave a presentation of the ongoing construction of Subcell 9.1. The project includes the construction of the 15-acre disposal subcell and related infrastructure (roads, leachate, landfill gas and stormwater features, etc.) and almost 1,800 linear feet of adjacent stream restoration. Earthwork for the subcell includes 563,000 CY of cut and 262,000 CY of fill and installation of an extensive underdrain system. The new subcell will be lined with 1.5 feet of low permeability subbase clay, two 60 mil HDPE textured geomembranes, and 2 feet of protective soil cover. The liner system also integrates two drainage geocomposites for leachate collection and leak detection. The stream restoration provides wetland mitigation for the Cell 9 disposal area and is also part of the County's initiative to improve stormwater quality through watershed enhancements. The Contractor performing construction of Subcell 9.1 is Allen Myers, the design firm is SCS Engineers, and construction management and inspection is being provided by Geosyntec Consultants. The stream restoration was performed by Angler Environmental. The total cost of the construction project is approximately \$12 million and is scheduled to be completed in September 2016.



Completed Stream Restoration

The Contractor performing construction of Subcell 9.1 is Allen Myers, the design firm is SCS Engineers, and construction management and inspection is being provided by Geosyntec Consultants. The stream restoration was performed by Angler Environmental. The total cost of the construction project is approximately \$12 million and is scheduled to be completed in September 2016.



Subcell 9.1 Underdrain Installation



Subcell 9.1 Subbase Installation

Upcoming Events

SWANA Mid-Atlantic Chapter Board Meeting, Lunch and Bowling Outing

Thursday, July 21, 2016

Visit Chapter website for additional info.

www.swana-midatl.org/events.html

Please register by July 8

Plan to attend!

ISWA's World Congress

SWANA's ASTECON

September 25-27, 2017

Baltimore, MD



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 web 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:** The Chapter is currently looking for an organization to sponsor the highest scoring candidate. The sponsor could be any organization and can suggest a name to be given to the award. The Chapter will accept an annual sponsorship of either \$500, \$1,000, \$1,500 or \$2,000. Please contact Steve Lippy or Mehal Trivedi.
- ◆ **Name(s) of Prospective SWANA Members:** Contact either our Chapter Membership Chair, Deji Fawole dfawole@scsengineers.com or direct the prospective member to our Chapter website www.swana-midatl.org or SWANA’s website www.swana.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 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.
- ◆ **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.

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2017 Scholarships
Application Deadline is May 1st



Visit Chapter Website for more info.
www.swana-midatl.org



Mid-Atlantic Chapter
Solid Waste Association of North America

c/o Northeast MD Waste Disposal Authority
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Stephen T. Lezinski, Newsletter Editor
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We're on the Web!
www.swana-midatl.org

June 28, 2016

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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.”