



The

WINTER 2010

Keystone

For the Solid Waste Professionals of the Keystone Chapter of SWANA

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A Message from SWANA President Robert Hasemeier



Greetings to you in this new year and with a new set of Chapter officers.

While in past newsletters I prepared the opening message, I realized that not many of you know my background, or much about any of our Chapter officers. Therefore, you will find a short story (less any details for secret missions) elsewhere in the newsletter about the new slate of Chapter officers. You may personally meet us in Harrisburg at the mid-winter meeting.

This newsletter is a forum for sharing information about our business, about the people that we do business with and what is going on at other facilities that we need to know, about the facilities that process and dispose of waste. In this newsletter, we showcase two PA waste authorities that as stewards of the land are maintaining wildlife habitat certifications. Waste Management is raising the bar again for single stream recycling and the

Chapter is planning to have a mini-technical seminar on location later this year. You will also find some EPA highlights about greenhouse gas (GHG) monitoring and reporting along with “go to sources” for more information.

Upcoming stories to be featured in future issues of this newsletter will focus around the new governor and what will be the new mission for PA DEP. Also, I am working on an assignment to re-energize the biological population within the landfill waste mass, thereby producing more landfill gas. We have heard that PA DEP is seeking to regulate LFG condensate produced at a western PA landfill as a hazardous waste, even though the liquid is combined with landfill leachate. The Keystone Chapter is attempting to respond to various member requests to have P.E. continuing education units available from attendance at Chapter functions. These are some of the issues for 2011 that your Chapter is tracking for its members and will share as we learn more. 

- Robert Hasemeier, a.k.a. Mr. Trash

The Young Scholars of Central Pennsylvania Charter School Wins State-Wide Recycling Competition

Last October, a state-wide school paper recycling competition was held in Pennsylvania with over 50 schools from across the Commonwealth entering. This competition, named GreenSylvania, sponsored by the Professional Recyclers of Pennsylvania and Keep America Beautiful, really got the kids excited about recycling.

After all of the recycled paper was collected, weighed and divided by

each school's population, a winner was introduced. The Young Scholars of Central Pennsylvania Charter School (located in Centre County, PA) came away with the victory, recycling a total of 4,408 pounds of paper during the month of October. That's a whopping 18.84 pounds of paper per person at the school.

The Young Scholars received a traveling trophy made from recycled

materials as well as a check for \$250.00 to be donated towards their recycling program at an awards ceremony held on November 22, 2010.

Over 60 tons of paper was recycled during the month long competition. Full results of the competition can be viewed by visiting the [GreenSylvania website](#). 

Submitted by: Amy Schirf, PROP

Robert F. Hasemeier, P.E., President



Mr. Hasemeier has more than 35 years of experience in construction, design, permitting and operational assistance for environmentally related projects and facilities. He is an elected borough councilman. Mr. Hasemeier's career has also included

experience as a public official which includes 6 years as a county deputy commissioner responsible for the development and operation of a 200 tons per day waste to energy facility plus nearly 2 years as a State environmental official responsible for oversight of waste to energy facility permits and designs. Since becoming the Keystone Chapter president, he now refers to his wife of 35 years as the "first lady of garbage", a title which she has accepted.

Mr. Hasemeier is currently employed by Barton & Loguidice, P.C. and his career has included work on a wide range of solid waste management and infrastructure facilities including landfills, landfill gas to energy facilities, transfer stations, construction and demolition debris processing facilities, and composting facilities. His experience

in recent years has focused upon alternative energy development and the beneficial use of wasted resources. Several persons have also taken the solid waste management course at Penn State Harrisburg where Hasemeier has taught since 1989.

Hasemeier has both BS & MS Civil Engineering degrees from Syracuse University, is a licensed PE in 13 states and is SWANA MOLO certified. He began his career as the Town engineer for the copper mining town of Bagdad, AZ which was followed by three years as the Base Environmental Coordinator for Griffiss AFB in Rome, NY which had its own landfill. That job transitioned into the Oneida County DPW Deputy Director for Waste Management where he was responsible for permitting, constructing and starting up a 200 tpd waste combustor and bypass landfill, the first double lined landfill in NY State. After a 2 year stint as a regulator with NYS DEC, Hasemeier moved to Harrisburg, PA in 1987 where he has been working with infrastructure projects, landfills, composting and recovery of wasted resources. Some of his most favorite assignments as a consultant was as technical advisor to various EPA regions where he provided technical comments on almost 100 landfill designs requiring approval by EPA staff. 

Tim Hartman, Vice President



Tim Hartman graduated from Temple University with a Bachelor of Arts degree in Political Science and a Master of Arts degree in Public Administration. Tim served for sixteen years with the U.S. EPA in Region 3, mostly in the area of public affairs and intergovernmental relations.

During that time, Tim spent two years on special assignment in Richmond as EPA's liaison to the Commonwealth of Virginia and was twice selected to serve intergovernmental personnel assignments with Pennsylvania's Department of Environmental Resources (PADER now PADEP). While on loan to PADER, Tim was the department's first Regional Community Relations Coordinator and his success was instrumental in the statewide expansion of that program. A few years later Tim returned from EPA to DER as the Administrator of the Radon Monitoring program during its crucial formative years.

Tim left EPA in 1990 following a satisfying assignment as Region 3's Director of Public Affairs where he oversaw the

substantial growth of the office's staff and responsibilities and managed several external relations activities including the superfund community relations program. Tim then joined the hazardous waste unit of the Union Pacific Corporation as a community relations manager for a planned project in central Pennsylvania, and was subsequently assigned as a manager on the corporate public affairs staff.

In 1996, Tim returned to the public sector as the Executive Director of Montgomery County Pennsylvania's solid waste and sewer authorities. Following the transfer of the sewer authority's assets to an affiliated regional authority in 2004, Tim continued to direct the activities of the Waste System Authority of Eastern Montgomery County comprised of two transfer stations and a public/private partnership waste-to-energy project. He is also responsible for overseeing the county-wide household hazardous waste collection and recycling programs.

Tim is a Vietnam-era Cold War veteran who retired from U.S. Army Reserve with the rank of Lieutenant Colonel after a twenty-five year career including duty in Grenada and Egypt. Tim and his wife Karen have three grown children and live in Richboro, PA. 

Robert Zorbaugh, Secretary



Bob has served as Chief Operating Officer of the Lancaster County Solid Waste Authority since August, 2010. In this position he is responsible for oversight of all operational activities at all of LCSWMA's facilities as well as Capital

Project Management, Technical Services, and Accounting/Administration activities. He is responsible for assuring that all regulated municipal waste and recyclable materials are collected, transported, stored, processed, and disposed in accordance with Pennsylvania regulations as well as Authority Rules and Regulations. In addition, Bob

is responsible for ensuring that integrated waste management services are provided to industrial waste generators located within Lancaster County.

He joined the Authority in 1990 and has served as Landfill Manager, during which time he supervised a large-scale landfill reclamation project and several subtitle D landfill cell constructions. From 2001 to 2010, Bob held the position of Senior Manager - Operations for the Authority

Bob holds a B.S. in Geo-Environmental Science from Shippensburg University and has completed SWANA certification courses in Manager of Landfill Operations and Transfer Station Design. 

R. Stephen Tucker



A native of West Virginia, Steve grew up in Bridgeport, WV, and worked in municipal management for the City of Bridgeport, WV, after attending college at WVU, and graduating from Fairmont State University. Steve married Karen Hauser of Williamsport, PA in 1977 and they have four children and

four grandchildren. Steve and Karen currently reside outside of Montoursville, PA.

He came to Pennsylvania in 1987 as the first Director of the Mifflin County Solid Waste Authority. The Authority had been a planning body serving Mifflin County for twelve years. The Authority was culminating plans to provide for their first ever operations; a 100 ton/day incinerator, and opening a supporting municipal waste landfill, when the incinerator vendor dropped the project after announcing their exit from the waste industry. Steve moved forward implementing the landfill portion of the plan, and began operations at the landfill in July 1988.

The Authority grew from very modest beginnings; an initial borrowing of \$1.8 million and \$7.6 million of investment grade bonds to construct the landfill to serve

as a regional facility for Mifflin and Juniata counties waste disposal needs of 170 tons per day in 1991.

In April of 1997 Steve was hired as Director of Lycoming County Resource Management Services. Lycoming County Resource Management Services operates a 1,000 ton per day landfill, co-generation plant producing 1 MW of electricity, a 16,000 ton per year regional recycling system, a 100 ton per day transfer station, and the infrastructure development for an industrial park complex. The landfill has a maximum permitted daily volume of 2,000 tons per day with 1,600 tons per day average. RMS has currently selected PPLRE to contract for producing 6.4 MW of electric power to be generated from the landfill gas to serve the Federal Bureau of Prisons and the PJM Grid with renewable power.

Steve has introduced new scale software capable of tracking customer trends and able to prepare reports for customers in the format of their choice, and a new accounting software capable of producing management information for decision analysis. The changes in the local waste industry caused by merger and consolidations of local hauling companies created the need to become more responsive to customers. New policies, contracts, and concepts have been and are being developed to serve the growing dynamics of the local industry. 🌐



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LCSWMA & PPL Install Wind Turbines

The Lancaster County Solid Waste Management Authority and PPL Renewable Energy completed installation of two 1.6 MW GE Wind Turbines at the Frey Farm Landfill in Lancaster County. The project will provide the neighboring Turkey Hill Dairy with 25% of their electric needs. The turbines began commercial operation in January 2011. 🌍



View of Turbines from Frey Farm Landfill



Pictured from left: Rick Kligensmith, PPL; Quinten Frey, Turkey Hill Dairy; PADEP Secretary John Hanger; and LCSWMA CEO Jim Warner

SWANA Training Classes Offered In Lancaster

SWANA will be offering two training classes this May during the 2011 NAWTEC event being held in Lancaster, PA on May 16th – May 18th. The two classes are: “Managing MSW Transfer Stations” and “Manager of Landfill Operations” (MOLO). Classes will be held May 16 through May 18 with exams on May 19. Keystone SWANA members:

don't miss the opportunity to renew your certifications or have staff members receive this valuable training close to home. For more information regarding this training, log on to www.swana.org or call 1-800-GO-SWANA.

Protecting Habitats for the Future of Pennsylvania

On November 11, 2010, environmentalist, educators, and corporations alike, attended the 22nd Annual Wildlife Habitat Council Symposium in Baltimore, Maryland. Representatives from Waste Management of Pennsylvania, Chester County Solid Waste Authority and Lancaster Solid Waste Management Authority were all a part of this event to accept awards as environmental stewards, as they proudly accepted certifications from the Wildlife Habitat Council. The Wildlife Habitat Council (WHC) is a nonprofit, non-lobbying 501(c)(3) group of corporations, conservation organizations, and individuals dedicated to restoring and enhancing wildlife habitat. Created in



Waste Management's Lakeview Landfill District Manager and Engineer with their beehive pole in Erie, PA

1988, WHC helps large landowners, particularly corporations, manage their unused lands in an ecologically sensitive manner for the benefit of wildlife. Projects on these lands, which vary in nature and scope, are corporate-driven cooperative efforts between management, employees, community members, local conservation groups and local, state and federal agencies. WHC also works to broaden understanding of wildlife values through the incorporation of conservation education, volunteer participation and community outreach programs. This year, the Chester County Solid Waste Authority was awarded their first *Wildlife at Work* Certification for the 630 acres they have set aside for wildlife habitat preservation. "We wanted advice from the Wildlife Habitat Council and other organizations to enhance what we had already started. We have numerous school and civic tours throughout the year and we wanted advice and recognition for what we were doing," said Chester County's Assistant Operations Manager, Dawn Nichols. The facility has been open to the public on a limited basis as a park since 2001 for their scenic overlook, which sits 1,100 feet above sea level and provides views of the Brandywine and Conestoga Valley.

Of the 630 acres managed for habitat at Chester County Solid Waste Authority, 400 of those acres are managed for grassland habitat.



Blue Grosbeak

Additionally, the team has installed almost two dozen Bluebird boxes and several American Kestrel boxes around their facility. "Working with the Boy Scouts has been empowering. Not only has our team learned about the many cavity-nesting birds, but also the scouts get a first hand look at the nests each bird makes. It's great to see the excitement on their faces when we monitor our bird boxes," said Ms. Nichols.

In addition to Bluebird boxes, the facility monitors five Screech Owl boxes. The team monitors the ground underneath for owl pellets, a sign the boxes are in use. Chester County team members have also worked hard at removing non-native invasive plant species, which resulted in an increase of wildlife population around the facility. Because of the successes of the current project, the Chester County team has plans to construct a nature trail and developing a non-native invasive species management plan.

See "Protecting" on page 7

Benefits of Keystone SWANA Membership

- Connect with local members to discuss state/provincial regulations and MSW issues unique to your region while increasing your network locally.
- Members have the opportunity to volunteer for a variety of projects in different capacities. From writing an article to leading your chapter, the opportunities to accelerate your leadership skills are available to those up to the challenge.
- A stronger employee makes for a stronger organization. Increasing your knowledge base, making connections and having access to resources will translate into more efficient operations, innovative ideas and enhanced communication.
- Offers solid-waste professionals a convenient, local forum to "educate, innovate and communicate."
- Involvement in your community
- Networking opportunities
- Staying on top of all the local regulation changes and technology advances; news regarding state legislative and regulatory items via Chapter-distributed newsletters (where available).
- Information regarding local training opportunities, meetings, events and more; Easy access to training opportunities
- Plus, you'll gain a group of friends and colleagues who want to help you advance your career.

"Protecting" continued from page 6

For Waste Management of Pennsylvania, American Kestrels have been nesting throughout the state at 15 of the certified Wildlife Habitat sites since 2001. Not only are American Kestrels nesting but other grassland birds are also finding their way to Waste Management landfills across Pennsylvania. At the Grand Central Sanitary Landfill in Pen Argyl, team members have been working with education specialists from the Department of Conservation and Natural Resources since 2005 and have found six grassland species nesting in preserved grassland habitat. These six grassland birds are listed on the *Audubon's Top 20 Grassland Birds in Decline*. "We wouldn't have known that these birds were on the decline without the help of our partners. Because of their

knowledge and day to day activity in the environmental field, our facility was acknowledged as a home for a species of birds that many environmentalists thought were merely extinct from the area," said Adrienne Fors, Community Relations Coordinator for Waste Management.

At Waste Management's Lakeview Landfill in Erie, Pa, the staff and local bee expert have partnered to study the Colony Collapse Disorder of bees on 65 acres of facility's property. The partnership began in 2008 between Waste Management and Bee Pole Inc. to research pollination and the Colony Collapse Disorder. Community Partner, Chester Lee and the Waste Management staff have placed over a dozen bee poles on the 65 acres to study. From the extensive

research done by Chester Lee, it has been concluded that from the implementation of the Bee Poles, the team has been able to reverse the colony collapse disorder in areas where bee poles were placed, increasing agricultural production from 7% to 30%.

Lakeview's successes can be attributed to long-standing community partners, which have helped pave the way for educational learning at the facility. Three community partners have made such a difference through their practice of environmental stewardship and passion to inspire and develop environmental citizens throughout Erie County, that they were awarded this year's *Community Partner of the Year* by the Wildlife Habitat Council. Community partners'

“Protecting” continued from page 7

Sisters Margarita Dangel, Pat Lupo and Annette Marshall of the order of Benedictine Sisters of Erie are three amazing women that have spent more than 40 years advancing conservation, stewardship and habitat enhancement.

Habitat projects and community partners have inspired Waste Management teams to initiate educational programs, such as Camp Kestrel at the Alliance Landfill in Taylor, PA. Alliance Landfill's Camp Kestrel has provided 7,500 environmental learning hours to more than 2,600 campers since its start in 2004. Since this time, campers and guests have participated in wildlife seminars, low-litter lunches, pollinator programs and more.

In October 2007, Waste Management set a sustainability goal to have 100 of its facilities certified by the Wildlife Habitat Council, and to have 25,000 acres of its land set aside for conservation and wildlife habitat by the year 2020. On November 11, the company announced that it had surpassed that goal, 10 years ahead of schedule. Waste Management now has 103 certified wildlife habitat programs, and has reached nearly 26,000 acres of land preserved as protected wildlife habitat. Of the 26,000 acres, Waste Management of Pennsylvania has 8,364 acres managed for wildlife habitat preservation.

The Lancaster County Solid Waste Management Authority's (LCSWMA)

was also certified as a *Wildlife at Work* site by the Wildlife Habitat Council this year. The property consists of the closed Creswell Landfill and the active Frey Farm Landfill. Habitat enhancement efforts have been focused on the Creswell Landfill, which consists of 70 acres of open meadows. The Authority is working to manage these 70 acres as avian habitat to encourage nesting, roosting and foraging in the areas most appropriate for birds.



Sister Pat Lupo and Operations Manager Tim Malesiewski with the Community Partner of the Year Award from the Wildlife Habitat Council Symposium

When the avian management project began in 1995, the wildlife team leader constructed and installed 20 bluebird boxes. By the end of 2009, the site had 70 bluebird boxes and 8 kestrel boxes at various locations. The 70 bluebird boxes fledged 173 bluebirds, 77 tree swallows, and 6 black-capped chickadees during the 2009-nesting season. Results from the bluebird-nesting program are

reported to the Bluebird Society of Pennsylvania. Twelve kestrels fledged from the eight kestrel boxes during the 2009-nesting season, and the wildlife team banded 10 kestrels in 2010. The team records the Kestrel data with the U.S. Fish and Wildlife Service and the Hawk Mountain Sanctuary.

"The Authority continually strives to maximize the beneficial use of our assets and we recognize the importance of properly managing the early succession grasslands that comprise our landfill caps," said James D. Warner, CEO of Lancaster County Solid Waste Management Authority.

"With a team of employees who truly care about the environment and who have taken initiative to create and enhance wildlife habitat at the landfill for 15 years, joining the Wildlife Habitat Council was a natural fit for LCSWMA."

Collectively Waste Management of Pennsylvania, Chester County Solid Waste Authority and the Lancaster County Solid Waste Management Authority have made a commitment to environmental education and make a difference in habitat enhancement and their communities. Together, these organizations have preserved over 9,000 acres in Pennsylvania for wildlife habitat. 

Submitted by Adrienne Fors, Community Relations at Waste Management

Your ad here!

The Keystone is now accepting advertisers in support of the SWANA Keystone Chapter Scholarship Awards!!



See Page 19 for details and additional information or visit KeystoneSWANA.org for an application.

Note of interest—sponsors to either the Road-E-O or the annual Chapter meeting will receive a free advertisement in the next issue of the Keystone newsletter.



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Agenda:

June 9, 2011

Welcome Dinner 6-9pm
Holiday Inn Morgantown, PA

June 10, 2011

Registration/Continental Breakfast 6:30-7:30am
Written and pre-trip test 7:30am
Competitive Events 8am-12pm
Lunch and Awards Ceremony to follow

Discounted Hotel Rates at the Holiday Inn, 6170 Morgantown Road Morgantown Pa 19543. For Reservations, please call 1-888-465-4329 and mention "SWANA" or online and use the group code "STR" and receive the \$98.00 discounted rate.

www.holiday-inn/morgantownpa

Questions about Registration:

Please Call Kay Dougherty 1-866-467-9262
kdougherty@keystoneswana.org

**Hosted By:
SWANA PA Keystone
Chapter**

Registration Is Now Open For The 2011 Great American Cleanup of PA

Keep Pennsylvania Beautiful announced this week registration is now open for the 2011 Great American Cleanup of PA through a new and expanded website.

This annual event is held in conjunction with the Great American Cleanup of Keep America Beautiful and in partnership with support from the Department of Environmental Protection, PennDOT, and PA Waste Industries Association.

Additional partnering businesses include Keystone Sanitary Landfill, PA Beverage Association, PA Food Merchants Association, Steel Recycling Institute, Waste Management, and the American Chemistry Council.

The 2011 Great American Cleanup of PA will begin on March 1st and end on May 31st. During this period, registered events can get free bags, gloves, and vests from PennDOT district offices.

Events consist of litter cleanups, illegal dump cleanups, beautification projects, special collections, and educational events. Events must be registered through the Great American Cleanup of PA website to get these free cleanup supplies.

As part of this event, the Department of Environmental Protection and PA Waste Industry Association are sponsoring Let's Pick It Up PA – Everyday. During the Pick It

Up PA Days, registered event coordinators will be able to take the trash collected during their cleanup to participating landfills for free disposal.

The Let's Pick It Up PA – Everyday event will begin on April 16th and end on April 30th. The focus day will be April 23rd.

All 67 counties in Pennsylvania were represented in the 2010 Great American Cleanup of PA. There were 4,822 events with 186,487 volunteers. Volunteers collected 603,537 bags of trash or 12,070,740 pounds. They cleaned 19,373 miles of roads, railroad tracks, trails, waterways, and shorelines, and 6,027 acres of parks and/or wetlands. Additionally, volunteers planted 21,605 trees, bulbs, and plants in an effort to keep Pennsylvania beautiful.

Since the inception of this event in 2004, over 54 million pounds of litter and waste have been removed from Pennsylvania's landscape, and tens of thousands of trees, bulbs, and flowers have been planted.

To register your event, find an event near you, or to find additional resources, visit the Great American Cleanup of PA website. Any additional questions can be answered by Michelle Dunn, Great American Cleanup of PA Program Coordinator, at 1-877-772-3673 ext. 113 or send email to: mdunn@keepbeautiful.org. 



PA Senate Introduces Asset Management Plans

On September 22, 2010 Pennsylvania introduced Senate Bill 1482 which **requires water and wastewater systems in the state to develop and implement asset management plans** and document progress toward full-cost pricing. This is possibly the first legislation in the country requiring asset management. The bill is currently in review by the Environmental Resources and Energy Committee.

Included in the bill is the establishment of a Asset Management Assistance Provider Program which will accredit people and organizations to provide asset management services as follows:

Create an Asset Management Assistance Provider Program in which the department may accredit a person providing assistance in the development of an asset management planning process, either on a program basis or on a system-specific basis, as an asset management assistance provider. The department may approve the materials to be used by the person, the person's qualifications and the methodology used by the person for the development of an asset management planning process and resultant reports in accordance with such specifications or guidelines the department may develop in

consultation with the committee.

There is some good information and text on Asset Management in this document, including a very good section (Chapter 5) detailing the required components of an asset management plan.

A copy of the bill in its current form, can be found on the Keystone SWANA website.

Submitted by: Timothy P. Taber, P.E., BCEE, Barton & Loguidice

From Trash to Energy

*Reprinted from American Public Media Radio website, January 27, 2011
"Marketplace "Program*

Throwing trash into a pit is as good as throwing money into a pit. One landfill manager in Los Angeles tells us how to convert that trash into cash.

Kai Ryssdal: Every year in this country we create about 250 million tons of trash. "Municipal Solid Waste" is the EPA's term. That's a

bit more than four pounds of garbage per person per day. All of it has to go some place once it's picked up at the curb on collection days. Mostly, our trash goes into landfills. As it happens, the biggest landfill in the United States sits not far from downtown Los Angeles. It takes in 13,000 tons of garbage a day. But it's filling up. It's going to have to close in two years, unless we can put our waste to work.

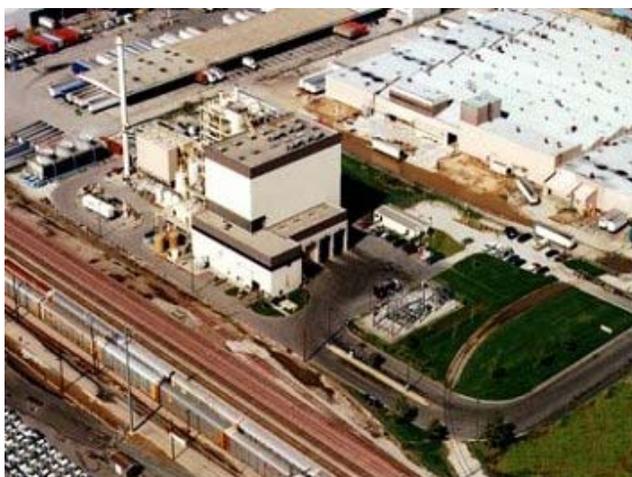
From the Marketplace Sustainability Desk, Eve Troeh reports.

Eve Troeh: There are people who look at garbage and don't see garbage. They see an untapped resource. Just ask this guy:

Mister Trash: Though I may be trash, I am anything but useless! That would be Mister Trash. He's an animated milk carton that greets you when you visit...

See "Trash" on page 13

“Trash” continued from page 12



Mister Trash: The Commerce Refuse to Energy Facility. Come on along!

Commerce is a city just south of Los Angeles, and the site of a 25-year-old program that turns trash into electricity -- enough to power about 15,000 homes at any given time.

I leave Mr. Trash and get a real tour.

Mr. Trash Hey wait a minute! I'm still talking!

Garbage trucks dump their loads into a pit, and a giant claw picks up huge, smelly mouthfuls. There's packaging, a ream of carpet that unravels endlessly, some old shirts and blue jeans.

Jonathan Iorga: Actually, we like fabric because it burns cleanly and it burns pretty hot.

Plant engineer Jonathan Iorga shows me the huge furnace where it all gets burned. I look through a tiny window into a 30-foot cavern of orange flame. It's the biggest fire I've ever seen.

Eve Troeh: Whoa!

Iorga: That's our own little manmade Dante's Inferno.

Troeh: And is that just burning all day, all night?

Iorga: All day, all night.

And the heat powers turbines that make electricity. The plant sells it to the local utility, says Iorga, and that makes the operation about break even.

Iorga: It's a power plant instead of using fossil fuel, it uses trash for its fuel.

But, the technology never really took off in the state, or across the U.S., according to Vivian Thomson. She studies trash policy at the University of Virginia and says there were a couple reasons for that. One was toxicity.

Vivian Thomson: The fear over dioxins and furans..

Fears that were overblown because of the ghosts of old, dirty incinerators. The other factor was harder to overcome.

Thomson: We have loads of land.

Thomson says instead of innovating with trash, the U.S. has opened mega landfills, further away from city centers. She says that's a shame.

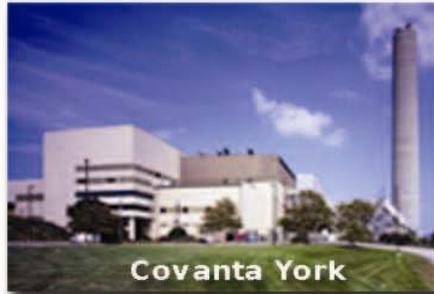
Thomson: You're literally throwing money and energy into a big pit in the ground. There are dollars in trash. Trash is energy.

While the U.S. has dug deeper pits, Japan, Germany and other nations in Europe have built hundreds of trash power plants, even in the middle of neighborhoods.

Greig Smith: We saw one in Japan, that they use the heating process to heat water, and they built a community pool with it. Another one built a senior center next door to the plant. That's Los Angeles City Council Member Greig Smith. He took a sort of world tour of trash-to-energy



Covanta Lancaster



Covanta York



Covanta Delaware Valley



Abington Transfer Station

Covanta Energy in Pennsylvania



Girard Point Transfer Station



Covanta Plymouth

58th St. Transfer Station

Covanta Harrisburg

Each year, Covanta Energy facilities in Pennsylvania dispose of approximately three million tons of municipal solid waste. The five Energy-from-Waste facilities we operate recover enough clean, renewable energy from waste to power 120,000 homes and complement local recycling efforts by recovering over 50,000 tons of metal each year for recycling.

We help provide the communities we serve with sustainable waste disposal and clean, renewable energy while also helping them reduce their carbon footprint. For each ton of municipal solid waste processed at an Energy-from-Waste facility we offset up to a ton of greenhouse gas emissions. Annually, our Pennsylvania facilities offset over 2.5 million tons of greenhouse gases, the equivalent of planting more than 57 million trees.

Reduce. Reuse. Recycle. Recover Energy-from-Waste.

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"Trash" continued from page 13

plants, and he wrote an epic report that's earned him a nickname...

Smith: Mr. Trash, not something politicians aspire to, but...

Smith's pushing southern California to take another look at waste-to-energy, and to build three new plants -- using new methods, like boiling trash in big, metal vessels.

Smith: What comes out of it is a very fine compost, that you can use in agricultural purposes. The technology does cost a lot upfront. But over time, L.A. County will have to haul its waste farther and farther into the desert. That's going to cost a lot more, too.

But Smith says a potentially bigger obstacle than the money, says Smith, is public opinion. Americans simply

don't want their trash in their own backyards. He says, more real world examples of the technology could convert the public.

Smith: You bring people in, you show 'em what you're doing, let them see it, touch it, feel it and walking out saying, "You know what, this isn't so bad after all."

Our animated milk carton Mr. Trash is certainly happy with his conversion.

Mr. Trash: You know what? I like this higher state of existence! Because no one can call me useless trash anymore!
In Los Angeles, I'm Eve Troeh for Marketplace.

Attention Keystone Chapter Members

COLLEGE SCHOLARSHIPS AVAILABLE!

DEADLINE FOR SUBMITTAL APRIL 5, 2011

Who: Eligible candidates must be sons, daughters, grandsons or granddaughters of a member in good standing.

Categories:

A.) Graduating High School Seniors or Graduate equivalent certified candidates who have been accepted for enrollment in a junior College, four-year College or a University (any program).

B.) Currently enrolled full-time College or University student entering junior or senior undergraduate year pursuing a degree in environmental science, engineering or suitable major related to the field of Solid Waste Management.

C.) Full-time students who are entering or are in graduate school pursuing a degree in environmental science, engineering or other suitable major related to the field of Solid Waste Management.

To obtain a scholarship application contact the Chapters Scholarship Chairperson Bob Zorbaugh at bzorbaugh@lcswwa.org or Kay Dougherty at kdougherty@keystoneswana.org



LMOP Quick Reference Sheet: Regulations and Proposals Affecting Landfills and LFG Energy Projects



GHG Reporting Rule (promulgated 10/30/09)

MSW landfills are required to report if annual CH₄ generation $\geq 25,000$ metric tons CO₂e. Subject landfills would report CH₄ generation and emissions, at a minimum. The final rule, a landfill information sheet FAQs, and an applicability tool are available at: <http://www.epa.gov/climatechange/emissions/ghgrulemaking.html>

GHG Endangerment Finding (promulgated 12/15/09)

EPA determined that the current and projected concentrations of the six key well-mixed GHGs, including CH₄, in the atmosphere threaten the public health and welfare of current and future generations. The full findings, background information, and other resources are available at: <http://www.epa.gov/climatechange/endangerment.html>

PSD and Title V GHG Tailoring Rule (promulgated 5/13/10)

Sets thresholds for GHG emissions that define when CAA permits under Title V and NSR permit programs would be required. Biogenic carbon dioxide is not exempted.

Two initial phases:

Step 1 (Jan '11 - Jun '11): No sources would be subject due solely to emissions of regulated GHGs, rather something else would trigger the new requirements.

- PSD sources already subject: net GHG emissions increase of $\geq 75,000$ tons CO₂e.
- Title V sources already subject: when applying for, renewing, or revising permit.

Step 2 (Jul '11 - Jun '13): Regulated GHGs do affect applicability.

- PSD sources: $\geq 100,000$ tons/yr CO₂e for New; increase of $\geq 75,000$ tons/yr CO₂e for Existing.
- Title V sources: $\geq 100,000$ tons/yr CO₂e.

The final rule and other information are available at: <http://www.epa.gov/nsr/>

Engines NESHAP (promulgated 8/20/10)

Implemented emission standards, monitoring, recordkeeping, and reporting requirements for LFG-fired internal combustion engines at major and area sources of HAP Existing non-emergency, spark ignition. LFG-fired engines ≥ 100 HP and ≤ 500 HP at major sources: limit of 177 ppmvd CO at 15% O₂. Previous rules in 2004 and 2008 set standards for other LFG-fired engines. The final rule and other information are available at:

<http://www.epa.gov/ttn/atw/rice/ricepg.html>

Boiler and Process Heater NESHAP (proposed 6/4/10)

Existing (with a design heat input capacity of > 10 MM Btu/hour) and new (any size) LFG-fired boilers and indirect-fired process heaters at major sources of HAP would be subject to emission limits of filterable particulate, hydrogen chloride, mercury, carbon monoxide, and a toxic equivalency factor for dioxins/furans. The proposed rule and other information are available at: <http://www.epa.gov/ttn/atw/boiler/boilerpg.html>

NSPS and EG for MSW Landfills (promulgated 3/12/96)

Landfills that are greater than or equal to 2.5 million Mg and 2.5 million cubic meters in design capacity and have estimated emissions of non-methane organic compounds (NMOCs) of at least 50 Mg per year must reduce their emissions of LFG. For landfills that commenced construction, reconstruction, or modification on or after May 30, 1991, the NSPS apply- For older landfills that received waste after November 8, 1987, the EG apply. The final rule and other information are available at: <http://www.epa.gov/ttn/atw/iandfill/landfillpg.html>

Amendments have been proposed but are not yet final.

NESHAP for MSW Landfills (promulgated 1/16/03)

Landfills with design capacities of at least 2.5 million Mg and 2.5 million cubic meters and estimated uncontrolled emissions of NMOCs of at least 50 Mg per year are required to collect and treat or control emissions of LFG. Subject landfills that operate part or all of the landfill as a bioreactor must install collection and control systems for the bioreactor earlier than would be required by the NSPS. The NESHAP also require semi-annual compliance reporting instead of the annual reporting required by the NSPS. The final rule and other information are available at <http://www.epa.gov/ttn/atw/landfill/Indfillpg.html>

For More Information:

EPA Climate Change site

<http://www.epa.gov/climatechange/>

**LMOP LFG Energy Project Development Handbook, Chapter 5
Landfill Gas Contracts and Permitting**

http://www.epa.gov/lmop/documents/pdfs/pdh_chapter5.pdf

Clean Air Act

<http://www.epa.gov/lawregs/laws/caa.html>

EPA Rulemaking Gateway

<http://yosemite.epa.gov/opei/RuleGate.nsf/>

The Keystone Newsletter Advertising Request

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Ads can be color or black and white. The 2011 *Keystone* Advertising Rates are as follows:

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- Mail check payable to: "Keystone SWANA" to Kay Dougherty, 123 Wynneberry Drive, Ephrata, PA 17522
- Any questions, please contact Diane Roskos of Barton & Loguidice by e-mail or by telephone at 717-737-8326.
- Advertising requests can be made at anytime. The ad will be placed in the next issue of the newsletter.

Advertising revenue supports the SWANA Keystone Chapter Scholarship awards.

News You Can Use...Legislative Report—National

Information is taken from Keystone Chapter's Vice President and Legislative Chairman Tim Hartman's 2010 Legislative Wrap-Up Report. The full report can be accessed on the Keystone SWANA website.

2010 Environmental Legislation

President signed Secure and Responsible Drug Disposal Act

- Transfer of prescription drug
- Custody for disposal
- Facilitates local take-back programs

EPA Released Tailoring Rule Guidance Documents

- Applies CAA's PSD and Title V permitting to GHG
- Provides BACT options for a number of specific sources
- Does not specify BACT
- Promotes energy efficiency
- Solid waste BACT options delayed three years

EPA Reveals On-Line Electronic Greenhouse Gas Reporting Tool (e-GRRT)

- First report due March 31, 2011
- Landfill module drafted
- Requires facilities to certify their e-GRRT users by January 31, 2011
- First report must contain total emissions
- Confidential business information concern under review

2011 Federal Forecast

No Climate Change Legislation

Tailoring Rule Will Move Forward Unless Stymied by Congress

Possible "Clean Energy Standard" Including Landfill Gas and Waste-to-Energy Technologies

2010 Pennsylvania Legislative Wrap-Up—Unfinished Environmental Work

BILL #	Description
H.B. 708	Provides additional penalties for repeat violations of landfill regulations and requires compliance certifications for permit modifications and expansions.
H.B. 1069	Authorizes up to a \$4.00 per ton MSW fee for participating counties
S.B. 1379	Amends Act 101 specifying method of textbook recycling.
H.B. 2234	Solar Energy
H.B. 2591	Stormwater Funding
S.B. 1303	Clean Water Fund
H.B. 951	Open Space
H.B. 42	Historic Preservation
H.B. 1341	Sludge Testing
H.B. 1450	Environmental Advisory Councils/Geohazards
S.B. 783	Hazardous Sites Reporting
S.B. 115	Air Quality Plans
H.B. 621	Box Turtle
H.B. 80 H.B. 2405	Alternative Energy/Carbon Network

2010 Pennsylvania Legislative Wrap-Up Environmental – Related Bills Signed into Law

BILL #	Description
H.B. 961	<p>Recycling Fee Extends the \$2.00 per ton recycling fee through 2020 and authorizes \$1.25 million from the fund for used tire remediation.</p>
S.B. 1042	<p>Fiscal Code Amended to include provisions increasing the Education Improvement Tax Credit; provides for transfer from Tobacco Settlement; State System of Higher Education deferred maintenance monies and other special funds; establishes the DCNR Heritage Areas Program in law; provides for environmental, planning, and other permit extensions.</p>
H.B. 687	<p>Guaranteed Energy Savings Expanding guaranteed energy savings contracts to include technologies to reduce water and wastewater consumption ; signed into law as Act 39.</p>
H.B. 708	<p>Electronics Recycling Requires recycling of certain electronic products funded by industry fees; signed into law as Act 108.</p>
S.B. 168	<p>Borough Electric Purchases Further authorizes electric purchases by boroughs; signed into law as Act 87.</p>
S.B. 1429	<p>Local Government Merger Further providing for the merger and consolidations of local government.; signed into law as Act 102</p>
H.B. 1394	<p>Alternative Energy on Farms Relating to the splitting off of farm and forest land under preferential assessment for alternative energy production; signed into law as Act 109.</p>
S.B. 298	<p>Energy Production on Farmland Amends the Farmland and Forest Land Assessment Act to allow the splitting off of preserved farm and forest lands used for alternative energy systems and natural gas , and coal bed methane; signed into law as Act 88.</p>
S.B. 900	<p>Blight Establishes the Neighborhood Blight Reclamation and Revitalization Act; signed into law as Act 90.</p>
H.B. 2291	<p>Capital Budget 2010-2011 Capital Budget projects bill was singed into law as Act 82.</p>
H.B. 2290	<p>RCAP Capital Budget Debt Increases the Capital Budget debt ceiling by \$600 million; signed into law as Acts 48 & 47.</p>

SWANA Pennsylvania Keystone Chapter Calendar



For more Information, event registrations, and updated information please go to the Keystone Chapter's website: <http://www.keystoneswana.org/>. Some events to plan for include:

MARCH 2011

- Mail exhibitors and sponsorship announcement for 13th fall conference
- Program Committee completes planning for fall conference

APRIL 2011

- Thursday, 4/5 Chapter Scholarship applications deadline

MAY 2011

- Thursday, 5/5 10 a.m., Board Meeting at Modern Landfill, York.
- Announce Chapter Scholarship awards
- Monday, 5/16 - Wednesday, 5/18 NAWTEC, Lancaster, PA
SWANA Training courses
 - Managing MSW Transfer Stations
 - Manager of Landfill Operations (MOLO)

JUNE 2011

- Email registration announcement for 13th Fall Conference
- Thursday, 6/9, Reception for 8th Annual Mid-Atlantic Regional Road-E-0 participants and judges
- Friday, 6/10, **8th Annual Mid-Atlantic Regional Road-E-0** at Holiday Inn, Morgantown and Conestoga Landfill

JULY 2011

- Submit articles for summer newsletter

AUGUST 2011

- International Road-E-0 (location, date and time to be announced)
- Program Committee prepares program for the fall conference
- 8/23 - 8/25, **WASTECON 2011**, Nashville, Tennessee

SEPTEMBER 2011

- Wednesday 9/7 & Thursday 9/8, **PWIA/SWANA/PADEP/PAHMI Fall Conference**, Harrisburg Hilton.
- Thursday, 9,8 12:30 p.m., **Chapter Annual Business Meeting**
Distribute summer newsletter via email
- Chapter Fiscal Year Ends

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The Keystone is published a minimum of three times per year (generally winter, summer, and fall). If you have ideas for future articles, updates, or general suggestions for The Keystone, please contact **Diane Roskos** at Barton & Loguidice, Newsletter Secretariat Production Services, or any member of the Newsletter Committee listed below:

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Chapter members: please freely share this info with others that you work with or who have an interest in waste news in PA. **Please remember to send Kay Dougherty, Chapter Secretariat, your current email address** as all future newsletters, as well as informational broadcast faxes and other communications, will only be sent via email. Her email is: kdougherty@keystoneswana.org. If you did not receive your copy of this newsletter emailed from Kay, *you are not on our email list for news.*