Talking... TRASH

The Newsletter of the SWANA Florida Sunshine Chapter Spring 2014

Road-E-O 2014

May 30-31, 2014 – Cocoa, FL

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Letter from the President

March 2014

We are starting strong in 2014! Our Joint Summit was a great success with 199 participants. Once again, we heard from attendees that the joint conference is a fantastic format. Our thanks go to everyone who helped to make the conference such an enjoyable and productive event, including Tammy Hayes, Conference Chair, Keith Howard, Program Chair, and Crystal Bruce, Chapter Administrator.

Our next event will be the ever popular Road-E-O on May 30-31 in Brevard County. The early-bird deadline for registration is April 24. For the first time, we are offering a $100 discount to individuals who are competing for the first time. I encourage you to take advantage of the special pricing and get involved in this exciting event. You can learn more about the Road-E-O on pages 18-22 or by contacting Crystal Bruce at info@swanafl.org or 727-940-3397.

Start making plans now to attend our chapter's Summer Conference in Weston, Florida. The conference will take place July 27-29 at the Bonaventure Resort and Spa. Registration will open in late April. Stay tuned for some exciting news and member benefits!

Each year, our chapter awards two $2000 college scholarships to deserving students. We will be accepting applications through May 1 for the next school year. More details can be found on page 9.

I hope you enjoy reading this issue of Talking Trash and I look forward to seeing you in Weston in July.

Mitch Kessler
President, SWANA FL

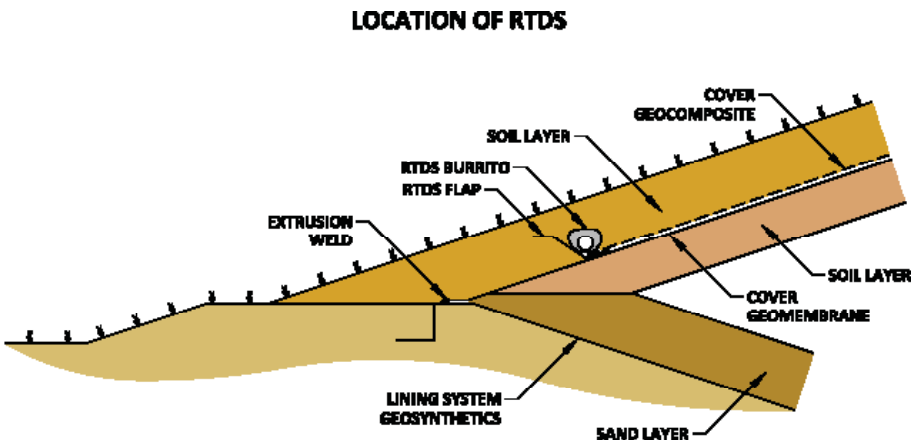
In This Issue

Managing Precipitation Infiltrating Into Final Cover

Written by Ali Khatami, Ph.D., P.E., SCS Globex Engineering

Rainwater falling on landfill slopes is managed by various systems developed at the stage of the design / permitting of the landfill. The surface water runoff is managed through swales and downchute systems on the slope. The collected water in the swales is conveyed to downchute pipes and then to the landfill perimeter storm water management system. Rainwater that percolates into the final cover generally exits the final cover in two different ways: i) a portion of the water stored in the final cover soil layer evaporates out of the final cover; and ii) water that percolates through the final cover soil layer reaches the drainage layer overlying the cover geomembrane. By design, the final cover geomembrane is generally textured to improve the interface friction within the final cover structure. The drainage layer may be a granular drainage layer or a synthetic drainage layer. The widely accepted synthetic material used for the final cover drainage layer is geocomposite. Geocomposite consists of a single layer of geonet heat bonded on both sides to geotextiles. The lower geotextile acts as the friction layer against the underlying textured geomembrane, and the upper geotextile acts as the filter to prevent soil particles from entering and clogging the geonet, which acts as the drainage medium. The subject of this article is related to those final covers including a synthetic drainage layer overlying a geomembrane barrier layer.

Rainwater reaching the geocomposite in the final cover percolates through the upper geotextile and flows down the slope through the geonet layer of the geocomposite. The water in the geonet at the bottom of the landfill slope must be managed in such a manner that water is not backed up in the geonet. The backing up of water in the geonet causes saturation of soil in contact with geocomposite, and saturation could potentially cause instability issues within the final cover. The best management technique would be to provide a collection system at the lowest point of the slope to efficiently remove water from the geocomposite and drain it out of the final cover. In the event that depressions exist in the landfill slope by design (such as benches, terraces, or access roads) with a low point toward the landfill slope, it is anticipated that the geocomposite conforming to the depression will have a low point as well. Water can get trapped in the geocomposite low point and back up in the geonet if a collection system and removal system for the water in the geocomposite is not provided. Removal of water from the geocomposite at such depressions is intentionally kept out of the remainder of this article and will be discussed in a future article. Thus, this article only discusses the collection system at the toe of the landfill slope, near the landfill perimeter berm.



The author developed the collection system discussed below approximately 17 years ago and later coined it as the "Rainwater Toe Drain System" or RTDS. Up to that point in time, the water in the geocomposite was directly discharged out of the lower edge of the geocomposite exposed to the open environment or buried in a gravel bedding on top of the landfill perimeter berm. Over time, it was proved that such designs could potentially fail to effectively remove water from the geocomposite due to the clogging of the geocomposite end point. Dirt accumulation, soil from erosion of cover soils from higher up on the slope, or vegetative growth around the geocomposite end point clogged the pathway for water out of the geocomposite and caused saturation at the toe of the landfill slope at the perimeter berm. The RTDS discussed below proved to be an efficient system requiring no maintenance, while performing effectively for an extended period of time. Like almost every new idea, the author had to upgrade his design over time to improve performance of the RTDS and reduce

maintenance of the system. The diagram shown below illustrates the most efficient version of the RTDS with respect to location and geometry, which was adopted by the author's clients as a standard feature in all of their final cover systems.

The RTDS includes a geomembrane flap (RTDS flap) welded to the cover geomembrane along a sloping line a short distance above the lowest point of the landfill slope. The flap is welded such that a depression can be created above the flap for positioning a perforated pipe (RTDS pipe) encased in gravel and wrapped in geotextile (RTDS burrito) inside the depression. A small soil berm above the cover geomembrane at the lowest point of the slope is constructed to support the RTDS flap and to form the desired depression. The sloping extrusion weld of the RTDS flap to the cover geomembrane will provide a sloping depression for the RTDS burrito. Each sloping section of the RTDS flap is approximately 150 ft long extending from a high point to a low point with approximately 2-ft vertical difference between the high and low points. The geocomposite drainage layer on the slope is terminated such that the RTDS burrito is positioned directly above the end point of the geocomposite. With this design, water in the geocomposite drains directly into the RTDS burrito and into the RTDS pipe. No soil should exist between the geocomposite and the bottom of the burrito, otherwise a hydraulic bottleneck will be created that will significantly reduce efficiency of the system.

Water flowing through the RTDS pipe drains out of the RTDS and out of the final cover through lateral pipes (at low points of the RTDS flap) positioned at 300 ft spacing (at the converging low ends of the two adjacent 150 ft long RTDS) along the landfill perimeter berm. Water is drained to the landfill perimeter storm water system. Each lateral pipe is connected to the RTDS burrito at the high end by penetrating the RTDS flap, and discharges to the landfill perimeter ditch at the low end of the pipe. The penetration through the RTDS flap must be booted, and an erosion control mat should be installed at the low point of the RTDS lateral drain pipe to eliminate soil erosion at the point of discharge.

Typically, the construction cost for a RTDS is approximately $30 to $40 per linear foot.

Realizing the Benefits of Artificial Reefs

Written by Charles Mangio, Division of Solid Waste, Pinellas County Department of Environment & Infrastructure

Pinellas County is a small peninsula with 588 miles of coastline located on the west coast of Florida. Through its Division of Solid Waste the county has been operating an artificial reef program since the early 1970's. The program's purpose is to divert clean and usable C & D debris such as concrete and steel from landfills in Florida and place it on the ocean floor in carefully selected state and federally permitted areas to create new fishing and diving opportunities to the public. Through the years more than 93,000 tons of concrete and steel were diverted creating over 40 separate artificial reef locations.

Once the material is placed on the ocean floor nature takes over. Within a few weeks the material becomes a foothold for microscopic organisms which in turn provides a food source for larger creatures. That, combined with the shelter provided by the artificial reef, helps support a diverse underwater community that is self-sustaining. The citizens and tourists of Pinellas County have many options available to them when it comes to fishing and diving of which they take full advantage. Over the years the artificial reefs have become a treasured recreational resource. It has been assumed that the program also provides economic benefits to the county but until recently those benefits have never been quantified.

In 2009, the University of South Florida and Florida Sea Grant conducted an economic impact study which showed the artificial reefs were visited more than 180,000 times that year. Those visits produced an economic benefit that far exceeded all previous assumptions. The 2009 economic benefit directly attributable to the artificial reefs for Pinellas County was over $75 million.

Another important benefit that isn't so easily calculated is the biodiversity associated with the artificial reefs. With regard to productivity, the biodiversity of the artificial reefs rival the few naturally occurring reefs off our coastline. Since much of our ocean floor is sand, the artificial reefs provide a high quality enhanced habitat and offset some of the negative impacts caused by humans on our naturally occurring reefs.

What better use for such material could there be? When used for this purpose, it provides an economic and environmental benefit to the local community and will continue to do so far into the future. It provides a durable and productive ecosystem that helps support a treasured resource (our oceans) and increases recreational opportunities to the many visitors and residents in our community.

How Sure is Your Financial Assurance?

Written by Mark Hadlock, PE
Jones Edmunds & Associates, Inc.

Florida Department of Environmental Protection (FDEP) requires landfill owners to obtain financial assurance in the amount of closure and long-term care to ensure proper maintenance and adherence to regulatory requirements. Due to financial assurance program inconsistencies over the years, Florida county governments have increased the oversight of privately-owned landfill operations in order to protect their communities. The Saufley C&DD Disposal facility in Escambia County, FL is a case study where the financial assurance program wasn't so sure.

The 20-acre Saufley C&DD Disposal site was abandoned by the Owner/Operator without completing the closure required by the FDEP and left it in a condition that was an immediate threat to public health and the environment.

Debris had been placed outside the limits of disposal, including in areas designated for stormwater swales, ponds, and setbacks from residential areas. The final elevation of the debris exceeded the permitted height by approximately 30 feet, and the side slopes were 3:1 rather than the permitted 4:1. These conditions resulted in heavy erosion that washed soil and debris into the roads and local stormwater systems, causing flooding and hazardous conditions.

The financial assurance required by Subtitle D and FDEP is specifically intended for use in this situation. The Owner provided the financial assurance using a third-party insurance underwriter, but the underwriter refused to honor the policy because the policy was for the originally permitted closure design, which is no longer applicable. The insurance policy provided approximately $340,000 for closure and an additional $50,000 for 5 years of long-term care; based on the site's size and scope, these amounts are significantly lower than are necessary to meet closure requirements.

FDEP was unable to access the financial assurance funds needed to complete the closure despite having several judgments placed against the Owner. As a result, Escambia County was the defacto agency responsible for maintaining the site to protect its citizens. With no foreseeable Financial Assurance funding and in spite of severe budget shortfalls, the County accepted the full responsibility for closure and long-term care of the site.

The County elected to close the site with a geomembrane rather than the less-stringent 2 feet of soil cover required by FDEP with the intent to eliminate concerns regarding odor, side-slope seeps, erosion, and exposure of waste in case of a hurricane. The solution adopted was to use an exposed geomembrane covered by a synthetic turf never before used in Florida and in a coastal area prone to hurricanes.

FDEP required an Alternate Procedures request because the closure product was not an approved final closure system. Although FDEP approved the closure system, FDEP and the County wanted assurance that if the untested material failed the manufacturer would guarantee complete repair or replacement. Therefore, the backing of the guarantee was heavily scrutinized, and a detailed contract carefully defining the terms of the guarantee was developed.

The cost of the closure was approximately $6 million and included excavating and hauling 150,000 cubic yards of debris to the County's Class I landfill and purchasing land for stormwater management and geosynthetics – none of which was included in the original Financial Assurance Closure Cost Estimate. The end result is a pleasant park-like setting that blends well into the local community.

College Scholarships Available

Struggling with college expenses? The SWANA Florida Sunshine Chapter now offers two scholarships per year for college students worth $2,000 each ($1,000 per semester). These scholarships will be awarded directly to the students to assist with tuition, books, fees and/or living expenses. So if you work in the solid waste industry (and why else would you be reading this newsletter), graduated or are a senior in a State of Florida High School – or have a child who fits this bill – with at least a 3.0 GPA, what are you waiting for?

Go to our website, www.swanafl.org, and download the application – click on Committees, then Awards and Scholarships. Applications are due by May 1 for the following school semester. Please share this information with your colleagues and others in your organization who can use some help paying for college, and who couldn't these days? Helping someone pay for college also helps SWANA achieve one of its main goals – to educate. And education helps to provide a better future for all of us. If you have any questions, feel free to contact us at info@swanafl.org.

Ash Recycling at the Pasco County Resource Recovery Facility

Written by Justin Roessler[1], Timothy Townsend PhD P.E.[1], Christopher Ferraro PhD[2], John Power[3]

The West Pasco Resource Recovery facility, under support from the Pasco County Board of County Commissioners, has begun a project to assess the feasibility of recycling waste to energy ash. The University of Florida Solid and Hazardous Waste Research group in coordination with the Hinkley Center for Solid and Hazardous Waste Management is aiding Pasco County in the study. The study involves the construction of a series of roadway test strips utilizing waste to energy bottom ash as an aggregate replacement. Under a research, development, and demonstration permit, test sections of asphalt, concrete, and road base course will be produced from WTE bottom ash, along with corresponding control sections that will be used for comparison. Groundwater monitoring wells have been constructed upgradient and downgradient of each test strip and are being monitored prior to and following construction. Lined roadway test pads will be installed which will serve to collect leachate for analysis and measure leachate generation rates under the roadway surface. Analytical testing of the waste to energy ash utilized in the test sections, as well as testing of asphalt and concrete specimens made from waste to energy ash, will be conducted. This will incorporate the US-EPAs recently adopted set of test methods, often referred to as the LEAF methods.

Pasco County Solid Waste Director John Power and landfill operator Gary Ackerman screen waste to energy bottom ash for use as aggregate at the West Pasco Resource Recovery facility.

In addition to assessing the environmental feasibility of reusing WTE ash, the project will also evaluate the practicability of using WTE ash as a civil construction material. Mix designs utilizing WTE ash as an aggregate replacement in Portland cement concrete and hot mix asphalt were developed in support of the project. Following construction of the roadway test sections, samples will be taken for further materials testing. Successful completion of this project will provide Pasco County with the necessary information to make decisions regarding future larger scale WTE ash recycling efforts and will deliver data needed by FDEP to help to assess the beneficial use of WTE bottom ash in road construction. Comparison of laboratory data with results from groundwater monitoring will supply needed information on the appropriate testing methodology for similar future beneficial use projects. Construction of the test strips is scheduled to begin in May of 2014.

Affilliations
[1]Department of Environmnetal Engineering Sciences, University of Florida
[2]Department of Civil Engineering, University of Florida
[3]Solid Waste Director, Pasco County FL

Solvent-Contaminated Wipe Disposal – Pinellas County

Written by Catherine J. Eichner, LEP, Division of Solid Waste, Pinellas County Department of Environment & Infrastructure

With the recent EPA solvent-contaminated wipe conditional exclusion (40 CFR 261.4), the Pinellas County Solid Waste Division ("Division") had to make a determination on our policy with regards to acceptance of the excluded disposable wipes. This rule change by the EPA allows for solvent-contaminated wipes to be excluded from the definition of solid waste; thus, providing non-hazardous, less expensive options for disposal. The exclusion is conditional and therefore requires businesses to meet certain specific conditions, such as container management and labeling, to take advantage of this exclusion.

The exclusion was designed to be a less-burdensome and less-costly management alternative for businesses, i.e., being able to throw them in the trash. However, Pinellas County strives to convert as much solid waste to energy as possible; therefore disposal in the land fill was not an option considered by the Division. With a Waste-to-Energy Plant on-site and groundwater/leachate to protect, the decision was made to require disposal of the wipes through waste to energy only. Additionally, the conditions of the exclusion apply through end of life of the wipes; therefore, the Division needed to take necessary precautions to ensure compliance once received on-site until disposal.

Therefore, the Division issued a policy that requires excluded disposable wipes to be brought to the facility by appointment so that incineration can be confirmed. The policy also requires the following criteria be met, which is in line with the conditions of the exclusion: the solvent-contaminated wipes must be stored in a clear, 6-Mil or thicker sealed plastic bag, labeled with the words "Excluded Solvent-Contaminated Wipes" and the bag may not contain any free liquids. The special waste appointment notice along with the transaction ticket received upon disposal can serve as documentation of disposal for the generator.

In order to encourage our County businesses to utilize the exclusion and to assist them with meeting the conditions, the Division has applied for an EPA Source Reduction Assistance grant to fund the production of pre-labeled bags that meet the Division's policy conditions as well as the conditions of the exclusion. If awarded, the grant will allow for the production of 30,000 bags to be distributed over the course of two years. Also, the grant includes the production of educational materials and hosting educational workshops for County businesses regarding the solvent-contaminated wipe conditional exclusion.

City of Kissimmee Joins Give Kids the World for the Extreme Village Makeover

Written by Jody L. Kirkendall, City of Kissimmee

In January 2014, the City of Kissimmee joined forces with Give Kids the World (GKTW) and the Wyndham Vacation Ownership (WVO) group in an adventure like no other. The Give Kids the World Extreme Village Makeover consisted of renovating 88 of their 140 villas in 2 weeks and was overseen by the Wyndham Vacation Ownership Group. The City of Kissimmee has been a proud supporter of GKTW for nearly 20 years. The employees of the City hold a special place in their heart for the Village and are always willing to lend a hand when it's needed and this was no exception.

As part of the project, GKTW and WVO's requirements were to make the project a green project. With a green impact in mind, several things needed to be done: Recycle, Reduce and Reuse. Several steps were taken to help in this process, including a precision demo of all the furniture, fixtures and appliances that were picked up by Habitat for Humanity for reuse in their projects. Pallets and particle board that were used in the transportation of materials for the project were picked up by Central Moving and Storage and reused. The City of Kissimmee had the task of removing and/or recycling the rest of the debris from the project.

The City began the project by providing the contractors with 2-96 gallon containers per villa and Waste Management Bagsters to load their debris in. This was also accompanied by a sign showing how and where everything should be set out to be picked up. This proved to be a major factor in being able to get the debris removed in a timely manner.

The contractors and volunteers did an outstanding job of keeping the waste streams separated. Cardboard was separated from plastic wrap and styrofoam packaging and picked up either by a front load truck with a dumpster on the front for small pile runs and the larger piles created from the delivery of appliances and furniture were picked up by grapple trucks.

The contractors were instructed to use the 96 gallon containers to put broken tile in for the first four days as the initial demo of the floors and bathroom began. This allowed them to take the cart into the villa, fill it up and then bring it to the curb for pickup. It also allowed the city to pick up the tile with automated side loaders and keep it separate from other debris which would be later used as road base. After the tile was finished, the containers were then used for smaller construction debris and waste.

The WM Bagsters provided were used to put large construction and demolition debris into. The Bagster was placed out next to the curb and emptied as needed by grapple trucks. This helped us control where the debris was placed to ensure that the trucks would be able to reach the debris without any obstructions and

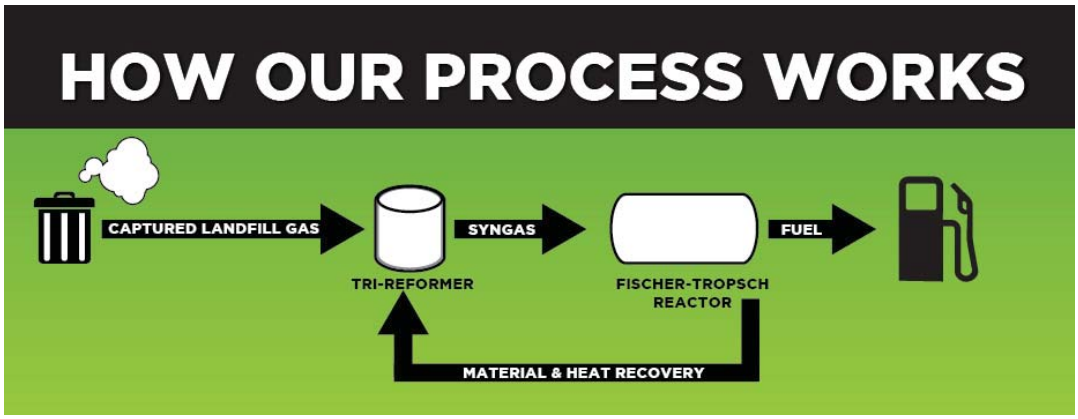
helped with containing smaller debris from littering the grass or roadway.

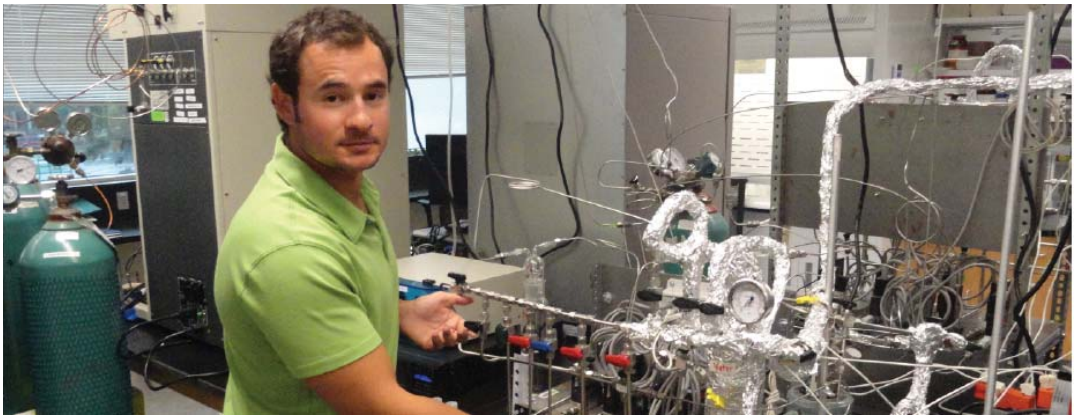
All the debris was then taken to the Bass Road Resource Recovery Site and loaded into the proper containers for removal. The City of Kissimmee removed over one million pounds of debris in 16 days. We had 76-20yd roll offs pulled with C&D material at a total weight of 505.74 tons. Of that, 354.01 tons (70%) was diverted from the landfill as being recycled or reused. We had 10-40yd roll offs filled with cardboard and had a total of 16.29 tons. The metal that was separated and recycled totaled 6.52 tons. This gave us an overall total of 527.33 tons collected and when combined with the materials removed by Habitat for Humanity and Central Moving and Storage, the project diverted over 90% from the landfill.

Conversion of LFG to Diesel Fuel

Written by Devin Walker, Chief Operations Officer, Trash 2 Cash-Energy LLC

Consumption of diesel by the garbage trucking industry represents 3% of the US diesel consumption with the average garbage truck using 8,600gal/year. This is a $9 billion/year expenditure. The escalating costs of fuel and environmental compliance have had a tremendous impact on this industry. Currently, the majority of garbage trucks use petroleum derived diesel and are susceptible to inflated market prices. Trash 2 Cash-Energy (T2C-E) has developed a process for the conversion of naturally occurring biogenically produced landfill gas (LFG) to diesel fuel. The process enlists energy saving tri-reforming technology to convert LFG to a desirable synthesis gas with a hydrogen to carbon monoxide ratio of 2:1. This high-grade synthesis gas is subsequently polymerized to diesel and jet fuel via a novel Fischer Tropsch catalyst. Proof of concept was completed at the USF Applied Surface Science Lab and validated T2C-E process for scale up. Surrogate LFG gas was successfully converted into the desired syngas composition with a H2:CO ratio of 2:1 and 99% methane conversion. T2C-E's patented catalyst was tested using bio-derived syngas and gave excellent reproducibility of diesel fuel production. GC/MS hydrocarbon analysis confirmed resemblance to commercial diesel's physical and chemical properties. Thermodynamics were validated using ChemCad software. T2C-E is currently seeking to scale to a skid mounted transportable pilot unit capable of processing 2-4 scfm LFG and producing 55 gal/week of diesel fuel. At this scale the amount of fuel produced will be sufficient enough to fulfill all fuel testing requirements. At this time, T2C-E is looking to collaborate with landfills to use excess LFG that would otherwise be flared or wasted to demonstrate and further validate the technology.





T2C-E is a University of South Florida spin-out company. The company was founded in early 2012 by USF faculty members Dr. John Kuhn and Dr. Babu Joseph, USF graduates Devin Walker and Timothy Roberge, and recently graduated Dr. Syed Gardezi.

Committee Updates

What a Great Turnout!

Written by Tammy Hayes, CDM Smith

Our 5th annual Joint Conference with RFT (Recycle Florida Today) was held on January 23rd at the Sheraton Lake Buena Vista. By all accounts, this was our most successful one yet with 199 attendees. Both Boards met the afternoon before the conference where they decided to continue this alliance for another year. The FL SWANA Board also discussed a number of other items including:

• Membership Contest – you could win up to $1,000 so be sure to get in on this!
• Chapter Road-E-O – May 31st in Brevard County
• Summer Conference – July 27-29th at the Bonaventure Resort in Weston
• Young Professionals – including adding poster presentations from university students
• WASTECON 2015 – August 24-26th at the Gaylord Palms in Kissimmee

Details and contact information for the membership contest, Chapter Road-E-O, and Summer Conference can all be found on our website www.swanafl.org.

The conference committee was tasked with developing a plan to 'give back' to the membership through reduced fees or other incentives for attending our summer conference. We're working on this now but look for some beneficial changes in upcoming conference announcements.

The conference began with a welcome reception on the evening of the 22nd, which unfortunately had to be moved indoors because it was too cold for us Floridians to gather by the fire pit in the pool area. The next day was chock full of concurrent technical presentations, beginning with a great joint key note session featuring speakers from Disney and Hertz, who is in the process of moving their corporate headquarters to Lee County. Both discussed their recycling and waste reduction programs, along with the associated opportunities and challenges for their companies. Lunch brought everyone back together again with two more speakers: Ron Hendricks from FDEP and Keyna Cory with the Florida Recycling Partnership both updated us on their organizations' respective activities.

Overall, this conference has turned into one that is not to be missed but if you were unable to join us this year, all of the presentations can be found on our website. Just click on the Events tab and scroll down to Past Events.

We look forward to seeing you at our Summer Conference in July!

Upcoming Chapter Events

Chapter Road-E-O
May 30-31, 2014
Holiday Inn Express and Suites
Cocoa, FL

Summer Conference
July 27-29, 2014
Bonaventure Resort
Weston, FL

Member News

Kessler Consulting, Inc. Selected as "Consultant of the Year"

Kessler Consulting, Inc. (KCI) announced that on March 12, 2014, the American Public Works Association (APWA) West Coast Branch presented KCI with the Consultant of the Year Award for 2014. This is a special honor reserved for the elite of Public Works Professionals, Projects, and Vendors.

The City of Indian Rocks Beach Public Services/Solid Waste Department nominated KCI for this distinct award. They said that "what sets KCI apart from other consultants is that they focus solely on solid waste management systems and issues. By positioning solid waste as their sole niche specialty, KCI has grown to become the authority for these issues in Florida and beyond." KCI's team is known by their public and private clients to be "seasoned industry veterans and experienced waste professionals . . . known throughout the Southeast for their integrity, innovation, and attention to detail."

For more than 25 years, KCI has served more than 200 government and numerous business and private clients with their expertise in solid waste management options and innovative, state-of-the-art collection, processing, and disposal solutions. As stated by Mitch Kessler, President of KCI, "We are committed to operating based upon principles of sustainability, and providing leadership and environmental stewardship within the communities we serve. It is an honor to be the recipient of this prestigious award."

Mitch Kessler (President, Kessler Consulting)
John Lyons (Public Works Director, Hillsborough County)
Brandi Allegood (West Coast Branch Chairman, APWA)
Mike Merrill (County Administrator, Hillsborough County)

Hillsborough County Awarded Environmental Project of the Year

Hillsborough County recently received the American Public Works Association's West Coast Branch 2013-2014 Environmental Project of the Year for its impressive solid waste and recycling achievements during the past year. The project was a dynamic combination of new service procurements with four providers, a comprehensive communications campaign, the assembly and distribution of over 500,000 carts, and the single-day startup of automated collection service for the county's more than 250,000 residential customers.

The project was one for the record books. Hillsborough County and Kessler Consulting, Inc. teamed up to craft a completely new strategy to modernize the outdated system, resulting in the largest single-event automated collection implementation in history. The team also seized the opportunity to implement RFID technology, providing real-time management tools for maintaining collection system performance. Project duration from contract execution to service commencement was just nine months; a remarkable feat and a true testament to the dedication of Hillsborough County's project team.

2014 SWANA FL Road-E-O

May 30-31, 2014 - Cocoa, FL

Register Online at
ww.regonline.com/swanafl2014roadeo

Hosted by
Brevard County Solid Waste

Headquarters Hotel:
Holiday Inn Express & Suites
301 Tucker Lane, Cocoa, FL 32926

Competition Site:
Brevard County Central Disposal Facility
2250 Adamson Rd., Cocoa, FL 32926

Why participate?

- To promote professionalism on the part of drivers, equipment operators and mechanics in the field of solid waste management

- To create a spirit of competition and goodwill throughout the participating organizations (municipalities, counties and private haulers)

- To reward deserving employees by allowing them to showcase their skills, thus bringing pride to themselves and your organization

- To provide employees an opportunity to refresh safety and skills in a classroom

The event is open to public and private sector participants. Contestants, volunteers and sponsors are needed for the success of the Road-E-O 2014. The deadline to register and take advantage of the early-bird rate is April 24, 2014. **The countdown has begun ... register today!**

Visit www.swanafl.org for more information or contact us at info@swanafl.org.

NEW! First-time participants - register by April 24 and receive $100 off registration fee!

Tentative Agenda

Friday, May 30
9:00 a.m. – 1:00 p.m.
Registration

1:00 p.m. – 1:30 p.m.
Welcome/Introduction

1:30 p.m. – 2:30 p.m.
Truck Driver Safety Class/Exam

1:30 p.m. – 2:30 p.m.
Heavy Equipment & Mechanic Safety Class

2:30 p.m. – 3:30 p.m.
Mechanic Exam

3:00 p.m. – 5:00 p.m.
Truck Driver Pre-Trip Inspections

3:00 p.m. – 5:00 p.m.
Heavy Equipment Pre-Trip Inspections

6:30 p.m. – 8:00 p.m.
Welcome Reception

Saturday, May 31
8:00 a.m. – 12:00 a.m.
Mechanic Competition

8:00 a.m. – 12:00 p.m.
Heavy Equipment Competition

8:00 a.m. – 4:00 p.m.
Truck Competition
(Walk through at 7:30 a.m.)

7:00 p.m. – 10:00 p.m.
Awards Banquet

SWANA Florida Sunshine Chapter
Sponsorship Opportunities

May 30-31, 2014 – Cocoa, FL

Register Online at www.regonline.com/swanafl2014roadeo

By actively supporting this event, your organization will benefit by strengthening its prominence as a leader in the solid waste industry and by increasing your network of contacts and established partners within SWANA.

ALL sponsors will receive the following benefits:

- Your logo on event signage/banners, promotional materials and the SWANA FL website
- Lunch on competition day
- Special recognition during the awards banquet

SPONSORSHIP OPPORTUNITIES:

❑ **Diamond Sponsor** ($3,000) – also includes recognition on participants' competition t-shirts; space at competition sites to display products or equipment; four awards banquet tickets; premium logo placement at Saturday banquet; and up to two minutes to address attendees during banquet

❑ **Ruby Sponsor** ($2,500) – also includes recognition on participants' competition t-shirts; space at competition sites to display products or equipment; four awards banquet tickets; and premium logo placement at Friday evening reception

❑ **Platinum Sponsor** ($2,000) – also includes recognition on participants' competition t-shirts; space at competition sites to display products or equipment; four awards banquet tickets; and premium logo placement

❑ **Gold Sponsor** ($1,500) – also includes recognition on participants' competition t-shirts; space at competition sites to display products or equipment; and two awards banquet tickets

❑ **Silver Sponsor** ($1,000) – also includes recognition on participants' competition t-shirts; and two awards banquet tickets

❑ **Bronze Sponsor** ($750) – also includes recognition on participants' competition t-shirts

❑ **Friend Sponsor** ($500)

IN-KIND DONATIONS:

❑ Water, sodas, coffee, donuts, bagels, juice, chips, ice, etc. SPECIFY: _____

❑ Breakfast meal, lunch meal, etc. SPECIFY: _____

❑ Trash and recycle containers, portable toilets, golf carts/ATVs, bleachers, etc. SPECIFY: _____

❑ Shirts, hats, etc. SPECIFY: _____

❑ Other ideas welcome. SPECIFY: _____

Monetary value of in-kind donation: $_____

Representative Name (to appear on sponsor list): _____

Company/Organization: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Email: _____

Total Amount Due: _____ ❑ VISA ❑ MasterCard ❑ Discover ❑ AMEX ❑ Check (Payable to SWANA FL)

Card Number: _____ Exp. Date: _____

Card Holders Name: _____

Billing Address: _____

Please mail or fax this form along with your payment to:
SWANA Florida Sunshine Chapter
3724 Johnathon Ave., Palm Harbor, FL 34685
Phone: 727.940.3397 Fax: 727.231.0693
Email: info@swanafl.org Web: www.swanafl.org

SWANA Florida Sunshine Chapter
Contestant Registration Form

May 30-31, 2014 – Cocoa, FL

Register Online at www.regonline.com/swanafl2014roadeo

Early-Bird Registration Deadline: April 24, 2014

I. CONTESTANT INFORMATION

Contestant's Name: _____

Email Address: _____ Is Contestant/Employer a SWANA Member? _____

Shirt Size: S ____ M ____ L ____ XL ____ XXL ____ XXXL ____ XXXXL ____

Will contestant have friends/family/colleagues attending the Competition? Yes, number: ____

Will contestant be attending the Banquet? ____ Yes ____ No

*Will contestant be bringing guests to the Banquet? Yes, number: ____ **Guest fee is $50/person.*

Guest Name(s): _____

II. EMPLOYEE CERTIFICATION

Employer: _____ Telephone: _____

Job Title: _____ Do you function in a supervisor capacity on the job?* _____
**Individuals functioning in a supervisory capacity are not eligible to compete.*

Work Address: _____

Length of Employment: _____

Type Equipment Employee Operates (Manufacturer): _____

Within the last twelve (12) months, has the employee had a chargeable:

Accident: Y ____ N ____ Moving Violation: Y ____ N ____

Number of workdays missed (without clearance) in the past twelve months: _____

Number of days late to work (without clearance) in the past twelve months: _____

Certified to be correct:

_____
Contestant Signature

_____ _____
Supervisor Name (print) Supervisor Signature

Contestant Registration Form
(Continued)

III. PARTICIPANT CATEGORY

SWANA FL reserves the right to remove categories if less than four contestants register. Contestants will be given the opportunity to select another category to compete in.

Will Driver be bringing own truck? Y ____ N ____

Circle one:

TRUCK DRIVER	HEAVY EQUIPMENT OPERATOR *	MECHANIC *
Rear Loader	Compactor *	
Side Loader	Front End Loader *	
Front Loader	Track Dozer *	
Roll Off		
Tractor Trailer		
Grapple/Claw †		

† State competition only.

* Landfill CEUs are available to those who qualify.

IV. FEES

NEW! First-time participants - register by April 24 and receive $100 off registration fee!

_____ x $ 95.00 for each Road-E-O First-Time Contestant
(Available on or before April 24; limited to first 20 registrants)

_____ x $ 195.00 for each Road-E-O Contestant *(Early-bird rate – available on or before April 24)*

_____ x $ 250.00 for each Road-E-O Contestant *(Standard rate – available April 25-May 9)*

_____ x $ 50.00 for each Guest Banquet Ticket

Total Amount Due: _____

____ VISA ____ MasterCard ____ Discover ____AMEX ____Check (Payable to SWANA FL)

Card Number: _____ Exp. Date: _____

Card Holders Name: _____

Billing Address: _____

Please mail or fax this form along with your payment to:
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Phone: 727.940.3397 Fax: 727.231.0693
Email: info@swanafl.org Web: www.swanafl.org

SWANA Florida Sunshine Chapter
Judge/Volunteer Registration Form

May 30-31, 2014 – Cocoa, FL

Register Online at www.regonline.com/swanafl2014roadeo

Registration Deadline: May 9, 2014

Name: _____ Employer: _____

Address: _____ City: _____State: _____Zip: _____

Phone: _____ Email: _____

Shirt Size: S ____ M ____ L ____ XL ____ XXL ____ XXXL ____ XXXXL ____

Do you have judging experience at a SWANA Road-E-O? Yes ____ No ____

Which competition? ____ Truck ____ Heavy Equipment ____ Mechanic

Please specify the events you want to assist with: _____

_____

Will you have friends/family/colleagues attending the Competition? Yes, number: ____

Will you be attending the Banquet? ____ Yes ____ No

*Will you be bringing guests to the Banquet? Yes, number: ____ **Guest fee is $50/person.*

Guest Name(s): _____ Relation to Volunteer: _____

Total Amount Due: _____

____ VISA ____ MasterCard ____ Discover ____AMEX ____Check (Payable to SWANA FL)

Card Number: _____ Exp. Date: _____

Card Holders Name: _____

Billing Address: _____

Please mail or fax this form along with your payment to:
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3724 Johnathon Ave., Palm Harbor, FL 34685
Phone: 727.940.3397 Fax: 727.231.0693
Email: info@swanafl.org Web: www.swanafl.org

Talking Trash Newsletter

Editor in Chief
Kim Byer
Hillsborough County
byerk@hillsboroughcounty.org

Managing Editors
Deb Bush
Pinellas County Solid Waste
DBush@pinellascounty.org
-and-
Kelsi Oswald
Pinellas County Solid Waste
KOswald@pinellascounty.org

SWANA Florida Sunshine Chapter
3724 Johnathon Avenue
Palm Harbor, FL 33685
Phone: (727) 940-3397
Fax: (727) 231-0693
Email: info@swanafl.org
Chapter Administrator: Crystal Bruce

Chapter Officers & Directors

President
Mitch Kessler
(W) 813-971-8333
mk@kesconsult.com
Kessler Consulting

Vice President
Tammy Hayes
(W) 813-281-2900
hayest@cdmsmith.com
CDM Smith

Treasurer
Sam Levin
(W) 407-475-9163
Slevin@S2Li.com
S2Li

Secretary
Deb Bush
(W) 727-464-7803
dbush@pinellascounty.org
Pinellas County Solid Waste

Immediate Past President
David Deans
(W) 407-806-4104
david.deans@atkinsglobal.com
Atkins North America, Inc.

Director 13-15
Keith Howard
(W) 239-533-8000
khoward@leegov.com
Lee County

Director 13-15
Bob Hyres
(W) 407-869-8800
bhyres@wasteprousa.com
Waste Pro USA

Director 13-15
Michael Gordon
(W) 727-587-6760
migordon@largo.com
City of Largo

Director 13-15
Rick Stevens
(W) 904-825-1049
rstevens@ci.st-augustine.fl.us
City of St. Augustine

Director 12-14
Kim Byer
(W) 813-272-5977 x 43131
byerk@hillsboroughcounty.org
Hillsborough County

Director 12-14
Jim Becker
(W) 407-836-6635
jim.becker@ocfl.net
Orange County

Director 12-14
Dan Rodriguez
(W) 239-253-0866
danrodriguez@colliergov.net
Collier County

Director 12-14
David Derrick
(W) 407-518-2170
dderrick@kissimmee.org
City of Kissimmee