

# Talking... TRASH

The Newsletter of the SWANA Florida Sunshine Chapter

Spring 2016

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# Letter from the President

April 2016

I just returned from our 2016 Joint Summit with RFT (Recycle Florida Today) in Orlando, which was themed “Partners in Progress.” This conference, with more than 200 attendees, was a huge success! There were some interesting and different sessions, including an interactive exercise at the end of the first day to keep everyone engaged, and a lovely poolside dinner. Thanks to all of you who participated in this conference, especially our exhibitors and sponsors.



If you missed that conference, we still have a number of events coming up. Our Road-E-O is being held April 15 – 16 in Seminole County. I encourage you to come and support our front line members. Then mark your calendars for our summer meeting held from July 24 – 26 at Saddlebrook in Wesley Chapel (just outside of Tampa). And SWANA International is hosting NAWTEC (North America Waste to Energy Conference) in West Palm Beach May 23 – 25, which will feature two tours of their new facility. During that time, SWANA is also holding a Safety & Compliance Seminar as a stand-alone event on the morning of May 24 while they’re in town. Visit <https://swana.org/safety> for more information on that. So there are lots of great things happening in Florida in the coming months. Be sure to check our website [www.swanafl.org](http://www.swanafl.org) for details.

We have a number of new committee chairs in place now and our committees need your help! If you want to get more involved in our chapter, this is a great way to do that. A list of those chairs can be found on page 17. Please contact the chairperson of the committee in which you’re interested to get on their roster.

In closing, I’m very excited about the coming year ahead and hope to work with you and see you at one of our events in the near future. Meanwhile, if you have any questions or suggestions, feel free to contact me or Crystal Bruce, our chapter administrator. Remember that this association belongs to all of us so the more you participate, the stronger we become.

Sincerely,

A handwritten signature in blue ink that reads "Tammy Hayes".

Tammy Hayes  
President, SWANA FL

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# Consolidating Business Processes and Delivering Total Efficiency with an SAP Integrated Software Platform

*Chris Williams, Managing Director,  
ISB Global*

Cliff Berry (CBI) has been providing a comprehensive range of environmental services under its brand for more than 55 years, including environmental assessment and remediation, waste management recycling and disposal, petroleum recycling and transportation, emergency response, industrial and marine services, waste water treatment and disposal, pipeline services and used oil collection. Based in Fort Lauderdale, FL, CBI operates seven facilities across the entire state, providing services across the southeast U.S.

## **Objectives**

CBI was seeking to implement a fully integrated business management software solution that provided end-to-end process management. They were looking to centralize control and eliminate the need for multiple software applications for customer information, operations and financial management. Specific objectives included:

- Inclusion of comprehensive materials movement rules and logistics to disposal sites
- Enhanced Material Master Data functions in order to automatically generate Waste Manifest Reports
- Improve human and cost resource efficiencies and vehicle asset use
- Enhanced functionality for master data, quoting, credit checking, transport tariffs and intra-company charging transactions
- Improve the quality of management information to gain greater insight into profitability.

By deploying ISB Global's SAP Business One and Waste & Recycling One across all seven operating facilities, CBI was able to meet their implementation goals.

## **A Certified SAP Software Partner & Industry Specialist**

ISB Global (London, UK) was established in 1998 and became an SAP Business One (for small to mid-sized businesses) Reseller and Global Development partner in 2005. ISB Global developed the industry specific Waste & Recycling One to meet the complex requirements of waste logistics and recycling materials.

As a certified software partner, SAP fully supports ISB Global and the Waste & Recycling One solution. ISB Global's customers benefit from SAP's product and infrastructure, a flexible and scalable integrated sector solution, and a combined experience of over 70 years in the waste and recycling supply chain.

ISB Global also provides a comprehensive support program, free patch updates, free upgrades, knowledge forums, expert communities, online training and learning sessions, complimentary content, applications and white papers, as well as access to the largest business software company community in the world.

ISB Global also has significant experience in SAP implementations with major multinational companies in mid and downstream Oil & Gas, which also helped CBI. ISB Global has been installing SAP and Waste &

Recycling One software in companies that specialize in a variety of waste logistics, materials recycling and associated industries, including: brokerage services and trading materials, plastics, waste electronics, hazardous solids and liquids, industrial services and maintenance, organics, environmental, new energy, utilities and bio-fuels.

ISB Global adopts an "agile" approach to software implementations and utilizes SmartWorld to provide an integrated software platform for mobile and web innovations. SmartWorld is built on the Outsystems platform and provides additional functions for web portals and mobile task management delivering enhanced workflows for collaborating with customers and suppliers or allowing users quicker and easier interaction on any device and any operating system.

## **Delivering Performance: Best Practice Project Implementation**

Project delivery is the most important part of the software implementation. Blueprint meetings were held with CBI to identify those business processes that would benefit most from operational and financial integration. In order to ensure maximum improvement in service levels and cost control, priority was given to master data management processes and governance, delivering a streamlined process, which cut administrative times and increased accuracy. Comprehensive testing and internal user training were included as a part of implementation to ensure a smooth transition from legacy systems. PRINCE 2, ASAP/AIP (SAP)





*Cliff Berry Inc. specializes in Port Serviceability, Cruise Ships, Barges, Cargo and Containers Maintenance Solutions and Logistics. Photo courtesy of CBI.*

project management methodologies were employed throughout to ensure quality control and delivery on scope.

CBI found that the strategic and financial benefits were:

- Quote-to-work order management captured data and provided critical intelligence on competitive positioning
- Master data management gave greater control and governance over profitability, efficiency and day-to-day use
- Enhanced material master data and linked business partner master data improved materials movement process and charging of waste profiles
- End-to-end visibility of all operational and financial processes provided better reporting and business intelligence

Operational benefits included:

- Business process integration delivered greater control, accuracy and intelligence
- New management systems improved the capability for resource allocation, job delivery time frames, intra-company transactions and invoicing processes
- Greater control over material processing, waste profiling, site

location, pricing and work orders improved efficiency leading to improved profitability

- Consolidation and automation of logistics and materials movement reporting improved administration time, leaving an accurate billing and audit trail of job, task and material movement from collection to disposal and reprocessing

**Why SAP Business One, Waste & Recycling One and ISB Global?**

ISB Global’s Waste & Recycling One is a robust, scalable, preconfigured small to midsize software solution, covering core ERP processes such as finance, accounting, purchasing and sales. It is a fully integrated software solution and ISB Global certified SAP Solution & Technology Partner (SSTP) covering the entire end-to-end business process. ISB Global is a specialist industry solution and partner, covering complex reverse and third-party logistics and comprehensive materials management with intricate legal reporting standards. They provided CBI with a life-long, cost effective, flexible and intuitive software solution with all core processes delivered with the ongoing ability to continuously improve and make enhancements anywhere in the process. Says Ira

Nassi, CFO of CBI, “What made it compelling was the flexibility and scalability of the software to fit our business processes.”

*For more information on ISB Global USA, e-mail [greg.robinson@isb-global.com](mailto:greg.robinson@isb-global.com). For more information on ISB Global UK, e-mail [chris.williams@isb-global.com](mailto:chris.williams@isb-global.com) or [matthew.gawn@isb-global.com](mailto:matthew.gawn@isb-global.com)*

*For more information on Cliff Berry Inc visit [www.cliffberryinc.com](http://www.cliffberryinc.com)*



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# Everything that Glitters is Not Gold: Defining CPI-WST

Lisa Lamppert, Senior Consultant,  
Kessler Consulting, Inc.

Many agencies use the consumer price index (CPI) published by the U.S. Department of Labor, Bureau of Labor Statistics (BLS) for annual service rate adjustments to offset the increased cost of providing services.

The broadest and most comprehensive CPI index is called the All Items CPI for All Urban Consumers (CPI-U), U.S. City Average, which is often referred to as “Headline CPI.”

This Headline CPI is comprised of more than 200 categories such as food, energy, housing, clothing, transportation, medical care, recreation, education and others. The change in relative price of these items is reflected in the change in the CPI index.

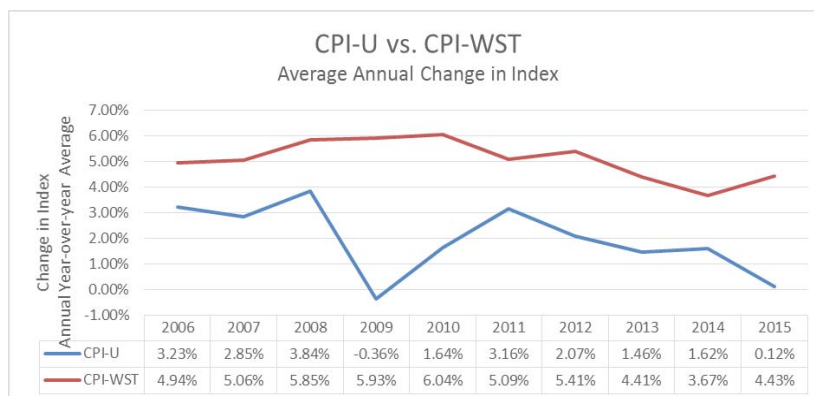
Over the past couple years, service providers have been requesting more often for the CPI for Water and Sewer and Trash Collections Services (CPI-WST) in rate adjustments. One of the arguments is that “the majority of inputs in CPI-U are unrelated to the cost of delivering waste services.” But what is CPI-WST? And how does it relate to the CPI-U?

## CPI-WST and CPI-U

CPI-WST consists of two items (residential water/sewer and trash collection services) that make up a very small portion (1.228 percent<sup>1</sup>) of the basket of goods used to calculate CPI-U. CPI-WST tracks the price for those services billed to residential customers. Economic assistants from the BLS contact the agency that bills consumers in a specific locality and, depending on the agency, the price may include taxes. Trash collection prices are based on consumption amounts, so if a Pay-As-You-Throw program is in place, the price for the same level of service will be collected.

However, major changes to collection services that can greatly affect customer rates are not identified. For example, if a local government that has held residential rates flat for the past several years makes a significant increase in order to “catch up” with the escalated rates paid out

required to cut costs to stay profitable. However, a fair and equitable service rate adjustment is in the best interest of both parties so that no one side is unnecessarily burdened and the quality of service is not compromised with cost-cutting measures.



The following chart presents a comparison of the average annual year-over-year change in CPI-U and CPI-WST. The consistency of the CPI-WST line reflects a consistent annual increase in rates with a 10-year average of 5.08 percent. The variable CPI-U line reflects movement in prices, including recessionary periods,

with a 10-year average of 1.96 percent.

to its service provider, a much larger increase in the cost to the customer would be reflected than the actual cost to provide the services. Other changes that could have a significant effect on customer rates include a change in service providers, privatization, the enhancement or introduction of new solid waste or recycling programs, as well as capital investments in infrastructure expansion or new infrastructure.

## Service Rate Adjustment

The purpose for a service rate adjustment is to provide appropriate escalation to contract rates to offset the increased cost of providing services over the term of a contract. It is

understandable that the contract parties may have opposing interests. If prices escalate too quickly, the burden is placed on the jurisdiction, which most likely will push it down to its residents. If rates do not cover the increased cost of providing services, the service provider may be

Be aware that just because the CPI-WST index has “Trash Collections Services” in its name does not necessarily make it the best choice for escalating service contracts.

Lisa Lamppert is Senior Consultant with Kessler Consulting, Inc. She specializes in procurement development, contracts and financial analysis. Lisa can be reached at (813) 971-8333.

## Note

1. Based on the August 2015 CPI-U U.S. City Average by detailed expenditure category.

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# Get a Firm Handle on Solid Waste Costs to Optimize Performance

Marc J. Rogoff, SCS Engineers

Getting a firm handle on solid waste agency costs is an ongoing key focus for any professional solid waste manager. This article focuses on the major financial tools available to optimize agency performance and project feasibility.

Solid waste agencies are under more pressure these days to provide high-quality waste collection, facility enhancements and landfill operation services. In addition, the pressures from ratepayers and local government “lean and mean” initiatives to keep rates and expenses low, has many solid waste agencies struggling. Balancing real cost escalation factors such as rising fuel, material and labor costs against the push for keeping rates static is challenging. Further, full cost accounting is difficult because agencies oftentimes support activities not directly related to normal operations or provide “free services” such as street sweeping or free collection and disposal for community events (i.e. fairs, farmer’s markets, runs for charity, art shows). Allocating shared costs across agencies is complicated and many times inaccurate adding to the agency’s overhead.

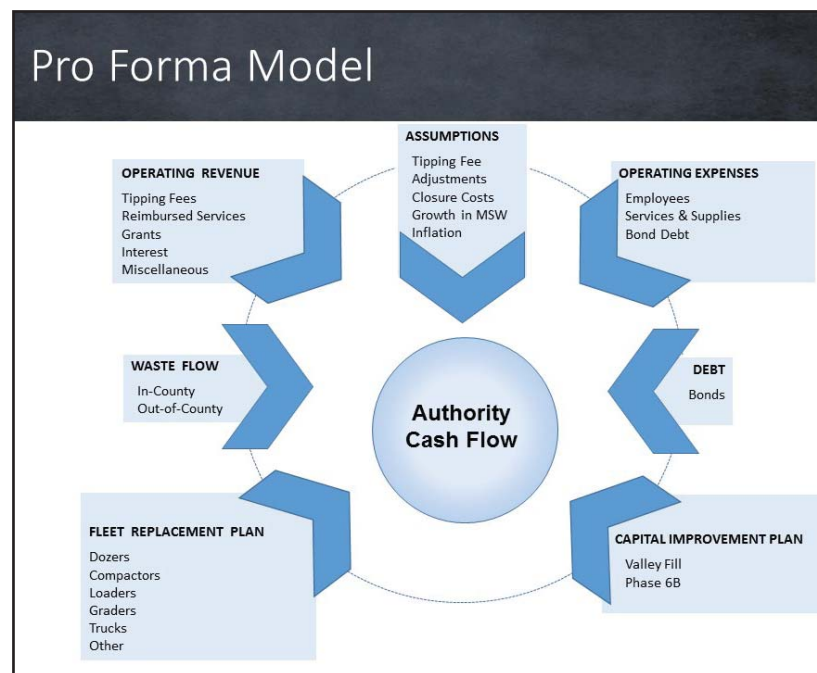
The scarcity of reliable data available to benchmark solid waste management operations handicaps timely comparisons among solid waste systems. Benchmarking rates or service fees for collection and disposal is challenging, but not impossible using financial tools now considered critical to focus on an agency’s primary policy and management issues. These tools are the basis for

## A Pro Forma Model

A Pro Forma Model is a financial tool crafted from the market dynamics influencing the life cycle of a specific project, cost center, or program (see figure below). In the solid waste business, every project is unique, and the design of the pro forma financial model should reflect these differences. To accommodate the various types of business models needed to analyze the

feasibility of recycling projects, we have developed different types of pro forma models that allow the client to tailor the financial statements to the particular project. Thus, each agency receives models that have the maximum flexibility to model multiple scenarios of facility size, energy production/co-generation, site locations and changes in operations.

For example, I have had clients desiring to evaluate the feasibility of a single-stream recycling program with multiple cart sizes, evaluate alternative landfill cover systems, collection equipment, and whether or not a change from manual to automated collection made long-term economic sense. Another client, a private waste hauler, wanted to evaluate the business case for implementation of a leachate evaporator. Cost of leachate disposal



Example of a Pro Forma Model used to project an authority’s cash flow. Figure courtesy of SCS Engineers.

budgeting, cost accounting, financial monitoring and evaluation aiming at recovering sufficient money to cover recurrent operational expenditures of the agency’s services as well as to stock up capital for new investments or large maintenance. I will use illustrations from recent case studies to introduce some of these tools.



was increasing and our client needed to make a business case for the project. In each of these cases, a pro forma model was developed to help quantify the capital and operating costs for the proposed facilities or programs and then compare these long-term costs against current programs. The results from these modeling efforts enabled the clients to quantify the payback or return to their agency.

### **Evaluating Cost of Service**

The use of financial tools to evaluate the agency's cost of service is another important area where pro forma modeling is used. Such cost of service studies evaluate the financial aspects of solid waste management programs and remain critical for ensuring sustainability of the agency. In short, these studies show how an agency determines the means to fill the gap between cost and revenues, alert authorities to options of how financial sustainability can be improved, and determine if privatizing some services is a reasonable option.

The lack of specific financial monitoring and analysis of data is one of the major barriers for not being able to sustain any envisioned improvement of an agency system. This concerns budgeting, cost accounting, financial monitoring and evaluation aiming at recovering sufficient money to cover recurrent operational expenditures of the collection service as well as to stock up capital for new investments or large maintenance. Many agencies do not know the actual cost of providing specific services. Before strategic decisions are made, an important step is to establish a full

understanding of the historical or current costs for provision of the services and the respective revenues. The studies serve to project financial sustainability in the short-term as well as long-term.

The growing national trend toward privatization of government-provided services demonstrates that the public sector solid waste agencies must operate efficiently and cost-effectively if they wish to continue providing these services to their citizens. Municipal governmental agencies must optimize the performance of their service utilities to ensure that costs are contained while service levels and customer satisfaction remain high. In fact, it is necessary for public agencies to think and act like the private sector service providers and spearhead efficiency gains and identify cost reduction measures to reduce operating costs while improving customer satisfaction.

### **The Use of Financial Tools**

In conclusion, the use of financial tools to evaluate current and proposed solid waste programs and facilities is an increasing trend across the nation by many solid waste agencies. These tools provide a useful vehicle for finding optimal management solutions, while at the same time, providing quick answers on their projected financial performance for political decision-makers.

*For more information, contact Marc Rogoff at SCS Engineers at (813) 804-6729 or e-mail [mrogoff@scsengineers.com](mailto:mrogoff@scsengineers.com).*

## **Resources**

Refer to the following recent articles for detailed illustrations:

- “Cash Flow Analysis Forstalls Long-Term Debt,” in Waste Advantage Magazine (<http://www.scsengineers.com/scs-articles/cash-flow-analysis-forestalls-long-term-debt-waste-advantage-magazine-december-2015>)
- “Conducting a Feasibility Study of a Small Community Solid Waste Infrastructure Needs,” WASTECON 2012 (<http://www.scsengineers.com/scs-white-papers/conducting-a-feasibility-study-of-a-small-community-solid-waste-infrastructure-needs>)
- “Economic Feasibility 101 – Understanding the Tools of the Trade,” in MSW Management (<http://www.scsengineers.com/scs-articles/economic-feasibility-101-understanding-the-tools-of-the-trade-by-marc-rogoff-msw-management>)
- “Can ADCs Work for Your Landfill? A Recent Feasibility Analysis Provided Some Valuable Lessons,” in MSW Management (<http://www.scsengineers.com/scs-articles/can-adcs-work-for-your-landfill-a-recent-feasibility-analysis-provided-some-valuable-lessons-by-marc-rogoff-scs-david-thompson-wastech-services-ltd-and-ed-hilton-scs-msw-management>)

# Landfill Safety Issues

Ramon Rivera, *Diamond Scientific*

A recent landslide at a Chinese landfill on December 20, 2015 left more than 70 people dead or missing and brought worldwide attention to landfill safety. The incident, which has been declared a man-made disaster, resulted due to breaches in landfill design, operation and safety procedures. It is currently being investigated and if negligence



*Payatas-Dumpsite Manila, Philippines*

*Photo courtesy of Kounosu, [CC BY-SA 3.0] via Commons*

is found to be a contributing factor, it could lead to those responsible being prosecuted by the law.

The investigation, which is still underway, has currently revealed that the landslide was due to human factors rather than a natural disaster, and occurred after a pile of construction waste grew too large and collapsed. The landslide flowed down a slope, burying 33 buildings situated within an industrial park, together with the people inside. The incident has not only raised questions about industrial safety standards in China, but also highlights the importance of safety on landfill sites.

## **Prioritizing Landfill Safety**

Landfill safety is an issue of particular concern, as landfill sites present many safety challenges, and if not managed

correctly, can be potentially hazardous. Firstly, due to the very nature of landfills, waste onsite needs to be appropriately managed to prevent landslides like the one mentioned from occurring. Secondly, while certain hazardous materials are not accepted by landfills, loads need to be inspected to ensure that no hazardous materials or banned chemicals are dumped onto the landfill by unscrupulous

individuals.

Thirdly, steps need to be taken to prevent contamination of water and air, and to prevent atmospheric emissions and ensure environmental integrity.

Finally, because decomposing organic matter results in the formation of methane gas—a highly explosive gas

that is both colorless and odorless—checks and balances need to be put in place to ensure the safety of both workers onsite, as well as that of neighboring communities. We will cover each of these safety issues in more detail in a series of articles focusing on landfill management and safety, including aspects such as slope design, leachate collection, gas detection and controlling atmospheric emissions.

## **Landfill Safety Training**

To ensure appropriate safety standards are adhered to on landfills, landfill operators should ensure that all staff receive appropriate training, as per the examples listed below:

- SWANA Landfill Basics. Invite SWANA certified trainers onsite to provide training before site opens and

and periodically thereafter.

- Provide SWANA Waste Screening Training
- SWANA Manager of Landfill Operations (MOLO) certifications for all key personnel
- Health Safety and understanding Federal, State and local laws.
- Generic WHMIS (Annual)
- Job Specific WHMIS Training (two-day training)
- Confined Space Safety
- Gas and Dust Mask Usage
- Transportation of Dangerous Goods
- Hazards Recognition
- Accident Investigation
- First Aid (Every three years)
- Fire Extinguisher Training
- Customer Service Training
- Effective Communications
- Cold and Heat Stress Training
- Accessibility Training
- Explosives Training
- Landfill Safety Measures

In addition, there should be at least one employee responsible for guiding and controlling traffic entering the landfill; for inspecting loads to ensure no hazardous waste is offloaded at the site; and for ensuring that appropriate safety gear and protective clothing is worn at all times when employees and contractors are working onsite out of their vehicles.

Landfill operators can make use of technology such as environmental monitoring equipment specifically designed for landfills to monitor and detect hazardous gases and ensure environmental safety.

*Diamond Scientific is constantly seeking opportunities and products that will contribute to a better world. By providing equipment that will offer environmental benefits, as well as cost benefits to those pursuing alternative energy solutions, they hope to do their bit to lessen the impact of energy production on our environment and climate. For more information, contact Ray Rivera at (321) 223-7500.*





# LEACHATE EVAPORATORS



## APEX WASTEWATER EVAPORATOR

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# Leachate Collection Pipe Construction

*Ai Khatami, Ph.D., P.E.,  
Vice President, SCS  
Engineers*

Consolidation of the landfill industry and complicated permitting processes have forced landfill operators to stay away from permitting new greenfield sites and stay within their currently permitted sites. Permitting lateral and/or vertical expansions is the way for landfill operators to remain in business, and that has resulted in permitted landfills becoming larger and taller. There are currently permitted landfills in the state of Florida or in other states with a maximum waste thickness exceeding 300 ft. Landfills with over 300 ft thicknesses may be rare, but there are many landfills with waste thicknesses over 200 ft in Florida. These landfills can apply significant compressive stresses on the leachate collection pipes placed below waste at the bottom of the landfill. Leachate collection pipes are considered the backbone for proper management of leachate in landfills. Without leachate collection pipes, leachate heads can quickly exceed the allowable maximum of 1.0 ft above the liner and the agency would have to take action at that stage, possibly shutting down the landfill if leachate collection pipes are compromised to the point of not allowing flow through them.

Leachate collection pipes are generally made of high-density polyethylene (HDPE) resin. There are certainly extensive standards to make sure that pipes used for leachate collection systems meet the minimum reported values by the pipe manufacturer; however, HDPE pipes by themselves

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*Photo 1: Gravel placed below pipe*



*Photo 2: Gravel formed around the pipe  
Photos courtesy of SCS Engineers*

cannot resist the compressive stresses of 200 ft or more of waste above them. What makes it possible for HDPE pipes to survive under such high compressive stress conditions is the gravel placed around the pipe. Extensive research by academia and industry has shown that gravel can bridge compressive stresses over and around the pipe and reduce the amount of compressive stress actually applied to the pipe when correctly placed. Situating the pipe over the lining system geosynthetics and then placing gravel over the pipe will not do the job. That type of construction has very high risks of the pipe collapsing under the compressive stresses because gravel cannot bridge the stresses around the pipe. For proper bridging of the compressive stresses, gravel must encase the leachate collection

pipe, which means gravel must be placed below and above the pipe. A minimum of 3 inches of gravel below the leachate collection pipe (Photo 1), in addition to gravel covering the sides and the top of the pipe (Photo 2), is a proper manner of construction to ensure compressive loads are not directly applied to the pipe, but bridged around the pipe by the gravel encasing the pipe.

It is very important for landfill engineers to show gravel below the pipe in their plans, and it is very important for the construction quality assurance monitors to observe placement of gravel below the leachate collection pipe. Construction of the leachate collection pipe with gravel below the pipe may take a bit longer, but that little extra time drastically increases survivability of the pipe below high compressive stresses.

Contractors need to have laborers available to form gravel properly around the pipe before closing the gravel with geotextile. Contractors must also be very conscious about placement of the protective cover material over and around the pipe/gravel/geotextile burrito. Improper placement of soil material may disturb the gravel pack around the pipe to the point that gravel may not function as desired. Such conditions would be almost impossible to detect or assess as a cause of failure if and when the leachate collection pipe collapses below waste.

*Ai Khatami, Ph.D., P.E., can be reached at (561) 441-1473 or via e-mail at akhatami@scsengineers.*

# Recycling ... Let's Get Back to Basics!

*Keyna Cory, Executive Director,  
Florida Recycling Partnership*

It's 2016 and we have four years to reach our 75 percent recycling goal in Florida. Many people are worried that we won't make the goal. Others are stepping up and doing what they can to increase recycling efforts in our state. The Florida Recycling Partnership and Recycle Florida Today are working with the Florida Department of Environmental Protection (FDEP) to produce a series of Webinars designed to help recycling coordinators educate their residents on recycling. The first one "Contamination: A Growing Challenge to Reaching Florida's 75 Percent Recycling Goal" was held in December 2015. It was well attended and the speakers had a common theme—education is the key to improving recycling rates.

The waste industry has tried to make recycling more convenient for everyone through single-stream carts but unfortunately, people do not always check to make sure they put the right items in the bin. Contamination can spoil your recycling program and keep recycling rates low. How do you talk to your residents about how to recycle properly? During the Webinar several ideas were shared.

Dawn McCormick with Waste Management talked about their great program, "Recycle Often. Recycle Right." They also have a variety of educational items on their Web site, [www.RecycleOftenRecycleRight.com](http://www.RecycleOftenRecycleRight.com). Waste Management is focusing on the basics of recycling and highlighting items that should be placed in the bins.

Travis Barnes, Recycling Coordinator for Hillsborough County, told the audience to focus the message on

what items can be recycled in your curbside program, as opposed to general information about why recycling is important or good for the environment. Just because an item seems like it should be recycled, doesn't mean that said item can be recycled. Hillsborough County is using signage to show what not to place in the recycling bin!

Ron Hixson from Santa Rosa County talked about the problems with their recycling program. As they moved forward with their recycling program, they soon realized that the county will need to charge for collecting and processing recyclables. Most people think recycling services should be free because there is a value to the products, but markets change, along with the value of certain items. Santa Rosa is working on an education plan to explain "Market Based Recycling." Ron said they are going to include the message "Yes, everything can be recycled, but not everything should be recycled."

To view the slides from the Webinar, visit [www.dep.state.fl.us/waste/categories/recycling/pages/publications.htm](http://www.dep.state.fl.us/waste/categories/recycling/pages/publications.htm)

The Florida Recycling Partnership looks forward to continued work with Recycle Florida Today and Karen Moore and her team at FDEP on future Webinars.

So let's get back to basics; it begins with the bin!

*Keyna Cory is the Executive Director of the Florida Recycling Partnership, a coalition of top Florida businesses and associations with the mission of educating policy makers and the general public on the benefits of*

*recycling. Keyna is also President of Public Affairs Consultants. She can be reached at (850) 728-1054 or e-mail [Keyna@flrecycling.org](mailto:Keyna@flrecycling.org).*

# Advertising Opportunities Available

It's not too late to reserve a space in the Summer issue of Talking Trash.

## Job Openings

Post an employment notice on the SWANA FL website for just \$100!

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Email [info@swanafl.org](mailto:info@swanafl.org)  
or visit [www.swanafl.org](http://www.swanafl.org)  
for more information.

## News from HQ

### Florida Atlantic University Takes Second Place in First WASTECON Student Design Competition

In 2015 SWANA introduced a new competition at WASTECON for our Young Professionals (YPs). Student teams were presented with a landfill gas problem to solve in fictional Hottenhumid County, Florida. For six months, the student teams worked to prepare a design report and poster with their solution. The students presented their projects to five judges and conference attendees. Through weighted scoring criteria for the

design report, poster and presentation, the judges selected a first and second place team.

First place was awarded to Massachusetts Institute of Technology (MIT). The Florida Atlantic University team (Owl Engineering Services) was awarded the second place prize of \$1,000. The team consisted of Neil Coffman, Joseph Lakner, Justin Dacey, Alyssa Dalloo, and Bishow Shaha.

Congratulations from the Florida Sunshine Chapter!



*Pictured from left to right at the WASTECON Awards Breakfast: SWANA CEO David Biderman, SWANA President Michelle Leonard, FAU team members Joseph Lakner and Bishow Shaha, SWANA YP International Board Representative Lynsey Kocenko, and FL Chapter YP Representative Nathan Mayer.*



## Member News

### Jones Edmunds Announces Two Personnel Changes

Jones Edmunds and Associates, Inc., a Florida-based engineering and environmental sciences consulting firm, announces the appointment of John Banks, Jr., PE, as the new senior project manager for the firm's Sarasota office. In this capacity, Banks will lead solid waste and utilities engineering project efforts in Southwest Florida. Banks has over 32 years of local government and consulting expertise in environmental engineering, including solid waste engineering.

He previously served as Manatee County's Solid Waste Division Manager. During his time with the County, he was involved in modernizing the Lena Road Landfill and implementing franchised waste collection. Mr. Banks also served as the Engineer of Record and Project Manager for the design and permitting of Sarasota County's Central County Solid Waste Disposal Complex – the most recent publicly-owned greenfield landfill site permitted in Florida.

He served on the Manatee County Environmental Lands Management Advisory Committee for several years and also previously served

as Chairman of the Solid Waste Association of North America (SWANA), Florida Chapter Disposal Committee.

Tobin McKnight, PE, has been promoted to serve as a Department Manager for Jones Edmunds' Solid Waste Department in Gainesville, Florida. Tobin has over 10 years of experience in solid waste engineering and has worked on numerous types of projects for local governments throughout Florida including permits, landfill closures, and gas collection and control systems. He also has experience managing waste excavations projects.

Tobin is a University of Florida graduate with a Masters of Engineering degree from the Department of Environmental Engineering Sciences, Solid and Hazardous Waste Management.

John Banks, PE can be reach at [jbanks@jonesedmunds.com](mailto:jbanks@jonesedmunds.com) and Tobin McKnight, PE can be reach at [tmcknight@jonesedmunds.com](mailto:tmcknight@jonesedmunds.com).

For more information on Jones Edmunds & Associates, Inc., call (800) 237-1053 or visit [www.jonesedmunds.com](http://www.jonesedmunds.com).



*John Banks*



*Tobin McKnight*

## Can we count you in?

We know you're out there and want to get involved — here's your chance!

Our committees need your participation. A lot of them have new chairs but some vice chair positions are still open. And most of them just need more members.

A list of our standing committee and technical division chairs is included on the following pages. Please reach out to the one you're most interested in and offer to help.

We can't wait to implement some of your good ideas!



**UF** | **TREEO Center**  
**UNIVERSITY of FLORIDA**  
[WWW.TREEO.UFL.EDU](http://WWW.TREEO.UFL.EDU)



### Landfill Design and Construction

May 2-5, 2016 | Orlando, FL | 3.2 CEUs | \$795

This four-day intense course will introduce critical components of landfill design and help you understand the "why" of modern landfill design. Topics covered include:

- Liner System Technology
- Geosynthetic Materials
- Soils used in Landfills
- Lab & Field Tests
- Liner Construction
- Construction Quality Assurance
- Leachate Collection System
- Leakage Evaluation
- HELP Model
- Geotextile Filters
- Landfill Stability & Settlement
- Leachate Treatment
- Final Cover & Gas System

\*Prerequisite: College Level math & science

#### Course Information:

Dawn Jenkins  
352-392-9570 ext. 227  
djenkins@treeo.ufl.edu

Registration is available online:  
[www.treeo.ufl.edu](http://www.treeo.ufl.edu)

Or through our registrar:  
Taylor Greene  
352-392-9570 ext. 212  
tgreene@treeo.ufl.edu

### 2016 SOLID WASTE MANAGEMENT FACILITIES COURSES Initial and Refresher Combined Training

#### 2016 Locations/Dates

Crestview • 3/1-3  
Gainesville • 3/22-24  
St. Petersburg • 5/10-12  
St. Augustine\* • 6/15-16  
Lake Buena Vista • 7/12-14  
Ft. Lauderdale • 8/16-18  
Plant City • 9/20-22  
Tallahassee • 10/18-20  
Gainesville • 11/8-10  
TBA • 12/6-8

\*Held with RFT

# SWANA FL Committee Chairs

## STANDING COMMITTEES

### Membership

Matt Locke  
(W) 813-247-2267  
Matt@TRUCKSandPARTS.com

### Conference

Tammy Hayes  
(W) 813-281-2900  
HayesT@cdmsmith.com

### Conference Sub Committee – Young Professionals

Wei Liu  
(W) 813-281-2900  
LiuWT@cdmsmith.com

### Conference Sub-Committee – Programs

Jason Timmons  
(W) 941-861-1572  
jtimmons@scgov.net

### Conference Sub-Committee – Golf Ray Rivera

(W) 321-223-7500  
ramon@landfillcontractor.com

### Conference Sub-Committee – Exhibits and Sponsors

John Locklear  
(W) 352-672-6867  
john@locklearconsulting.com

### Awards

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

### Awards Sub-Committee – Scholarships

Karam Singh  
(W) 904-598-8930  
Karamjit.Singh@hdrinc.com

### Bylaws (and Policy)

Keith Howard  
(W) 239-533-8000  
khoward@leegov.com

### Audit

Tammy Hayes  
(W) 813-281-2900  
HayesT@cdmsmith.com

### Nominating

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

### Legislative

Reginald Ofuani  
(W) (850) 891-5450  
reginald.ofuani@talgov.com

### Communications

Marissa Segundo  
(W) (727)278-7909  
msegundo@recycle.com

### Communications Sub-Committee – Newsletter

Angelina Ruiz  
(W) 800-358-2873 x 7  
angelina@wasteadvantagemag.com

### Finance and Budget

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

### Training and Health & Safety

Monica Bramble  
(W) 941-240-8060  
mbramble@cityofnorthport.com

Chad Grecsek  
(W) 954- 480-4386  
941-240-8063  
cgrecsek@deerfield-beach.com

## TECHNICAL DIVISIONS

### Collection and Transfer

Marc Rogoff  
(W) 813-804-6729  
mrogoff@scsengineers.com

### Landfill Management

Rebecca Rodriguez  
(W) 561-571-3800  
rodriguezr@cdmsmith.com

### Planning and Management

Euripides Rodriguez  
(W) (321) 633-2042  
Euripides.rodriguez@brevardcounty.us

### Recycling & Special Waste

Scott Byrne  
(W) 314-506-5787  
sbyrne@cassinfo.com

### Waste to Energy

John Power  
(W) 727-856-0119  
jpower@pascocountyfl.net

### Landfill Gas & Biogas

Dan Cooper  
(W) (813) 621-0080  
DCooper@SCSEngineers.com

## SPECIAL COMMITTEES

### Chapter Road-E-O

Gene Ginn  
(W) 727-587-6760  
gene.ginn@lakelandgov.net



## SWANA FL Scholarship Program

### **PURPOSE:**

The Florida Sunshine Chapter of SWANA established a Scholarship Fund to assist deserving students in obtaining a post-secondary education as long as certain requirements, as outlined below, are met.

### **AMOUNT OF SCHOLARSHIP:**

Each scholarship will be valued at \$2,000.00 per student, per school year. It will be awarded in increments of \$1,000.00 each, for two semesters, upon receipt by the Board of Directors of the SWANA Florida Sunshine Chapter of student status documentation. Payment will be made in the form of a check, payable to the student, to be used for tuition, books, fees, school supplies and/or living expenses as needed.

### **ELIGIBILITY:**

Following are the requirements to be considered for this scholarship:

1. Applicant must be a senior or former graduate of a State of Florida High School.
2. Applicant must have a minimum grade point average of 3.0, based upon on 4.0 system.
3. Application is due by May 1 for the following school year.
4. Applicant must be accepted as a full-time student, or a part-time student taking at least two classes, at a postsecondary accredited institution of higher learning.
5. Two letters of recommendation from persons of high regard dealing with the student's education, extracurricular or community activities must accompany application.
6. The applicant must submit a letter detailing their educational career ambitions.
7. Only one scholarship will be awarded per student. Therefore, you will be considered ineligible if you have previously received a scholarship from the SWANA Florida Sunshine Chapter.
8. Applicant with one of his/her parents or legal guardians working in the Solid Waste industry and/or active SWANA member will be given additional consideration.
9. Applicant pursuing college degree in environmental or solid waste related study fields will be given additional consideration.

**Additional information and application can be found online at <http://www.swanafl.org/page-1134605>**



# 2016 SWANA FL ROAD-E-O

April 15-16, 2016

Hosted By  
Seminole County Landfill

Register Online at  
[www.regonline.com/swanafl2016roadeo](http://www.regonline.com/swanafl2016roadeo)

## Headquarters Hotel:

The Westin Lake Mary, Orlando North  
2974 International Parkway  
Lake Mary, FL 32746

## Competition Site:

Seminole County Landfill  
1930 E Osceola Road  
Geneva, FL 32732

### 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 2016. The deadline to register and take advantage of the early-bird rate is March 10, 2016.

Visit [www.swanafl.org](http://www.swanafl.org) for more information or contact us at [info@swanafl.org](mailto:info@swanafl.org).

**First-time participants - register by March 10 and receive \$100 off registration fee!**

## TENTATIVE AGENDA

### Friday, April 15

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, April 16

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

## Webinar Program CONTINUES...

Florida Sunshine Chapter is a member of the SWANA Webinar Program. This allows Chapter members to attend SWANA live webinars with no out-of-pocket cost. The registration fee has already been paid for by your Chapter.

Chapter members can register themselves for SWANA Webinars online at SWANA.org. All you need is to enter the Chapter's **NEW** Debit Card Code at the time of registration.



Visit <http://www.swanafl.org>.  
Webinar Program information  
is under "Committees/Training."

*Limited number of registrations  
available at this time.*

### Earn CEU's

All individuals that  
attend a webinar can  
earn continuing  
education units.



# empower

SWANA Florida Sunshine Chapter has purchased 50 credits/registrations in the SWANA Webinar Program for member use. To use, members need only:

- Select live webinar from SWANA's offerings.
- Register and enter Florida Chapter code listed below.

Visit

<https://swana.org/Education/eLearning/ChapterWebinarProgram.aspx> for more information.

# inspire

To allow as many members to benefit as possible:

- View the webinar in a large room and invite others from your agency to attend.
- Coordinate with other smaller agencies to host a webinar viewing. Dorothy Couch, Bridges BTC, will help with coordination: [dcouch@mybridges.org](mailto:dcouch@mybridges.org), 321-494-6848.



# educate

When a group views a SWANA Webinar through the Chapter Webinar Program, all attendees can receive Continuing Education Units (CEU's). To apply for CEU's:

- Provide a sign-in sheet to [certification@swana.org](mailto:certification@swana.org).
- Include the webinar title and date, name of the person who registered to receive the logins, and the name and SWANA ID Number of each of the participants.

SWANA's Training Department will allocate CEU credits for SWANA Certified professionals who attended the webinar and are verified Chapter members.

**NEW Florida Chapter Webinar Program**

**Debit Card Code is: FL150617**

## Talking Trash Newsletter

### Editor in Chief

Angelina Ruiz  
Waste Advantage Magazine  
angelina@wasteadvantagemag.com

### Managing Editor

Molly Schweers  
Lee County Solid Waste Division  
MSchweers@leegov.com



SWANA Florida  
Sunshine Chapter  
3724 Johnathon Avenue  
Palm Harbor, FL 34685

Phone: (727) 940-3397  
Fax: (727) 231-0693  
Email: info@swanafl.org

Chapter Administrator:  
Crystal Bruce

## Upcoming Events

### 2016 Chapter Road-E-O

April 15-16  
Seminole County Landfill

### 2016 Summer Conference

July 24-26  
Saddlebrook Resort, Tampa

## Chapter Officers & Directors

### President

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

### Vice President

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

### 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

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

### Director 15-17

Gene Ginn  
(W) 863-834-8776  
gene.ginn@lakelandgov.net  
City of Lakeland

### Director 15-17

Jason Timmons  
(W) 941-861-1572  
jtimmons@scgov.net  
Sarasota County

### Director 15-17

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

### Director 15-17

Chad Grecsek  
(W) 954- 480-4386  
cgrecsek@deerfield-beach.com  
City of Deerfield Beach

### Director 15-17

Randy Rudd  
(W) 850-969-3393  
randall.rudd@ecua.fl.gov  
Emerald Coast Utilities Authority

### Director 14-16

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

### Director 14-16

Jim Becker  
(W) 407-254-9660  
jim.becker@ocfl.net  
Orange County

### Director 14-16

Monica Bramble  
(W) 941-240-8060  
mbramble@cityofnorthport.com  
City of North Port