

# *Talking...* **TRASH**

The Newsletter of the SWANA Florida Sunshine Chapter

Fall/Winter 2021

*Reconnect. Renew. Recharge.*

## **SWANA FL 2022 WINTER CONFERENCE**

**SAFETY HARBOR RESORT & SPA  
FEBRUARY 20-22**

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# Support Services for Solid Waste Managers in the Post-Pandemic World

Uncertain Times. Informed Decisions.

We understand the immediate and longer-term impacts of the global COVID-19 pandemic on solid waste operations, not least in terms of looming inflationary pressure, labor shortages, and uncertainty surrounding supply chain issues, which has affected procurement of new equipment and parts and distorted recycling markets. Many services such as curbside recycling remain popular with the public, yet for the majority of our clients are economically marginal. Waste generation has changed during the pandemic, with many haulers reporting sustained increases in residential waste and recycling streams coupled with declines in commercial volumes. No matter the challenges you are facing, Geosyntec can help your operation to be more efficient and resilient for an alternate future.

## What We Offer

Our experienced team of engineers and economists can help.

**Cost Analyses:** Updated rate structures and cost-of-service models are needed to better understand cash flow implications. We can help with:

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- Contingency planning
- Collection, operational, and recycling market assessments



## About Geosyntec

With over 1,700 employees in 90 locations in the US, Canada, Europe, the Middle East, and Australia, Geosyntec provides the engineering and science needed to recover from this pandemic.

For additional COVID-19-related services, visit [geosyntec.com/COVID-19](https://www.geosyntec.com/COVID-19)

For more information,  
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In these times of unprecedented global uncertainty, Geosyntec offers advice on fulfilling service obligations and customer commitments while minimizing costs and risks.

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# Letter from the President

December 2021

Happy Holidays!! What a great past few months. WASTECON had better than expected attendance last month in Orlando. A big shout out to Jason Timmons and Tammy Hayes for all they did in helping with the organization of this event. Of course, thanks to our tireless administrator Crystal Bruce who keeps the pieces from falling down and keeps everyone on point. While certainly smaller than a typical WASTECON, there was definitely a buzz in the air as folks walked the show floor and sat in on the many presentations during the week. Lastly, thanks to our golf outing organizing committee. This was one of the Florida Chapter specific events and directly benefits the chapter financially. After a long period of dollars only going out, it is finally nice to see a reversal in the stream.



So what's next you ask? As everyone clears the tryptophan-induced haze of Thanksgiving, we are laser focused on the Sunshine Chapter's Winter Conference. I know you've already blocked your calendar out for February 20-22, 2022 (yep 2022 ...). This year's theme—Reconnect, Renew, Recharge—sets the tone for looking forward in our industry and our day-to-day lives. Three R's for 2022: 1) Reconnect—no mute buttons, no distracted meetings, just one on one conversations and networking, 2) Renew—we've been engaged virtually, now it's time to look forward to how we will shape the future, 3) Recharge—there's nothing like an industry conference to remind us of what we do and why we do it. SWANA is a platform to share ideas, learn from our peers and grow our industry for the benefits (public health) of our communities.

As we get ready to turn the page on another year, I have said this before but I've always found this time of year as an opportunity to reflect. What did I accomplish this year? What goals did I fall short of accomplishing? What am I going to achieve next year? What will be the defining trend in our industry in 2022? I think we may get an answer to the last one in February, but you'll have to be in Safety Harbor to find out. All kidding aside, I have always made it a point to remember the hard work we do in this industry. This time of year is one of the most challenging. While the rest of the world targets days off, the people on the front lines keep this amazing solid waste system rolling. This is one of those odd years where the holidays fall on a Saturday meaning most collection systems and solid waste facilities will be open on the Monday after the holidays. Take a moment to appreciate the hard work these industry professionals do day after day.

I hope everyone has a wonderful holiday season and takes an opportunity to spend time with friends and family. I look forward to seeing everyone in February. Happy New Year!!

Sincerely,

A handwritten signature in black ink, appearing to read 'Keith Howard'. The signature is stylized with a large, sweeping 'K' and 'H'.

Keith Howard  
SWANA FL President

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# Paving the Way Towards Waste to Energy Ash Reuse

Chad J. Spreadbury, Ph.D., E.I.

Waste to energy (WTE) is an important municipal solid waste (MSW) management strategy across Florida, with roughly 20% of the state's MSW incinerated annually. WTE serves a critical role for densely populated communities as a solution to maximize existing landfill capacity by reducing bulk MSW into ash consisting of unburned materials such as glass, ceramics, and scrap metal. Still, landfill capacity in densely populated areas across the state is shrinking and finding more space is becoming increasingly difficult and expensive. Incineration is also a major waste management strategy in countries throughout Europe and Asia that face similar challenges with landfilling. To overcome these challenges, they are turning to reuse: processing their ash into engineered aggregates and mineral feed products.

## State of Reuse in Florida

WTE ash reuse in the U.S. is not a revolutionary concept. The Federal Highway Administration (FHWA) explored reusing ash as a road construction material throughout the 1970s and 1980s. In recent years, Florida has led the U.S. by exploring beneficial reuse with research projects using processed ash aggregates in road construction materials including road base, Portland cement concrete, and asphalt concrete pavement, as well as a mineral feed addition for Portland cement production. Research and projects have led to the Florida Department of Environmental Protection (FDEP) approving

conditional WTE ash reuse in a few counties under specific engineering and institutional controls.

From the perspective of WTE facility and landfill owners, ash reuse has several advantages. Landfill diversion means prolonging existing site



*Figure 1 - WTE ash processing unit with fine ash aggregate in foreground and stockpiled ash in background.*

capacity or limiting costs associated with sending ash offsite for disposal. Recovered materials are gained during the WTE process, including ash-derived products that can be used internally or provided to a market, as well as ferrous and nonferrous metals that may be salvaged. However, managers in charge of, or looking into, exploring reuse programs must also understand the factors involved with producing desirable end-products for end-users: engineers and contractors who will design and build with this material.

Since ash reuse is not widespread in the U.S., most end-users are unfamiliar with ash and ash-derived products and what the criteria are for acceptable quality and performance. This leads to hesitancy from end-users, where they see it as “taking a risk” with this material and as a potentially

frustrating and costly endeavor. Natural aggregates and other waste-derived aggregates, such as recycled asphalt pavement (RAP) and recycled concrete aggregate (RCA), have specifications and guidelines provided by authoritative agencies, such as the Florida Department of Transportation (FDOT) and the American Concrete Institute (ACI) to ensure best practices. Meanwhile, guidelines for ash reuse are mostly gleaned from research-based reports, which may vary from one another as ash may be processed differently between projects depending on the end-use (e.g., coarse versus fine aggregate) and how the material is processed (e.g., washing treatments, advanced metals recovery).

## WTE Ash Consistency and Processing

Since WTE ash is derived from MSW, it too varies to some degree depending on what is disposed, which also varies from facility-to-facility, and from day-to-day. Nevertheless, expected ranges for physical and chemical properties of WTE ash are well documented and processing techniques, such as stockpiling, screening, blending, and advanced metals recovery can aid in producing an increasingly consistent material (**see Figure 1**). Other recycled aggregates like RCA and RAP are produced to exacting standards using processes such as screening and crushing at dedicated facilities. Similar practices are necessary for WTE ash to create an engineered product with a reliable range of properties that can be designed for and produced consistently as needed for a specific project or



market. With that said, managers also need to factor in how processing and other variables play into the complete economic analysis of ash reuse.

### **The Economics of Processing and Recycling WTE Ash**

Ash processing and the technologies involved factor heavily into the economic viability of a reuse program. The capital and operational/maintenance costs of processing vary dramatically depending on the technologies used (e.g., screening versus advanced metals recovery). Different and multiple systems may be required depending on the desired end products and the initial ash characteristics. It is also necessary to consider other variables aside from processing, such as trends of increasing/decreasing market prices for aggregates or minerals, which can affect long-term ash recycling economics. Revenue can be provided by advanced ferrous/nonferrous metals recovery (**See Figure 2**), and this must also be evaluated based on how that may change with time (e.g., increasingly aggressive recycling programs, changes in market prices). Transportation costs with delivering products to market also needs to be considered. Beyond direct market prices of recovered materials, the value of saving landfill airspace, both economic and otherwise, need to be factored into this evaluation as well.

### **Ash-Centric Look at Guidelines and Specifications**

As mentioned earlier, end-users rely on existing specifications and guidelines to determine whether the materials they are working with have acceptable properties for their intended use. Since there are limited guidelines specific to ash reuse, existing standards for conventional materials are often used to establish



*Figure 2 - Closeup of nonferrous metal recovered during WTE ash processing.*

acceptable or non-acceptable properties, practices, and performance. This requires a careful examination of the underlying assumptions and intentions that comprise test methods, material criteria, and design protocols as these are developed in the context of “traditional” materials and may not factor in some of the unique physical



*Figure 3 - Closeup of a coarse ash aggregate stockpile.*

and chemical properties of an ash-based material (**See Figure 3**). To facilitate reuse, agreement on suitable testing procedures and minimum standards for material performance

that account for ash properties is needed, which may require development of new or modified testing procedures and design protocols. This is no different than some exceptions specified for other recycled materials including RCA and RAP, which also have their own criteria due to their unique characteristics. With this understanding, ash reuse can continue to evolve to keep Florida at the forefront of sustainable materials management practices.

*Chad J. Spreadbury, Ph.D., E.I. is an Engineer Intern at Jones Edmunds & Associates. He can be reached at (352) 377-5821, ext 1363 or e-mail [cspreadbury@jonesedmunds.com](mailto:cspreadbury@jonesedmunds.com).*

# Navigating Contracts, Finding A Path of What to Know

**Bethany Jewell**

Impacts from COVID-19, a challenging labor force, shifting commodity pricing, as well as changing roles and responsibilities have opened the door to many uncertainties in public-private partnerships the last few years. Add to this list, the mystery of potential service options and many companies and communities struggle with what a partnership could and should be moving forward.

Navigating this path can be sometimes complicated and challenging. While there are many moving parts to contractual terms in today's climate, the foundation for a sustainable and equitable partnership is the same. We have put together a brief "to-know" list to remind us that even in these changing times, contract bliss is possible:

*1. There is no single solution or set of benchmarks that works for all contracts:* Local objectives and markets must drive contractual terms. One size does not fit all.

*2. All services to collect, process and market materials have a cost:* Commodity sales from recycling revenue led many to believe that, at one time, recycling was not only free, but a revenue maker. This is not fully accurate—all services have a cost and have always had a cost. Commodity sales simply help offset those costs. It could be more. It could be less.

*3. There are many players and many perspectives in collecting and processing materials:* From haulers, processors, and governments to brokers and end markets, each player's perspective has an objective and priorities. The key is to know how they fit into your goals and be willing

to wear the other party's glasses to see where your goals align—with trust and open communication there is a sweet spot for all players.



*4. The public sector must clearly define the objectives and needs from the private sector:* Procurement documents that have been well planned and carefully crafted bring a new level of transparency and expectation for the private sector. You cannot write a strong contract without first identifying and knowing what needs to be in it.

*5. Include the right provisions:* A strong contract that can lead to a successful partnership has the provisions necessary for an equitable and transparent pricing structure, clear performance standards, monitoring and reporting requirements, as well as fair and justifiable provisions for non-

performance. Know your contract. It needs to be fair and equitable to both sides, no matter who is the principal author.

*6. Be Knowledgeable.* Understand the variables that can impact pricing: All players need to know and understand the different variables that can impact pricing and be willing to equitably share them under clear and concise contractual terms—successful partnerships share risk.

*7. Work together:* Contract bliss requires understanding the other player is truly your partner, bringing value whether it be technical skills, the latest technology, secured tonnage and customers, or property—opportunities for both the public and private sectors abound.

We believe successful professional partnerships take work. In our experience, open communication, trust and a common vision can overcome today's challenges and keep us all on the same path.

*Bethany Jewell is a Senior Consultant at KCI. For over 33 years, KCI has specialized in solid waste planning and implementation for its clients. Bethany can be reached at (813) 971-8333, ext. 15 or e-mail [bjewell@kesconsult.com](mailto:bjewell@kesconsult.com).*



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## **SWANA FL 2022 WINTER CONFERENCE** FEBRUARY 20-22 | SAFETY HARBOR RESORT & SPA

It's time! Time to Reconnect with each other. Time to Renew our relationships. Time to Recharge ourselves and our industry. Let's get together at the Safety Harbor Resort and Spa located on beautiful Tampa Bay for the first Florida Chapter in-person event in two years. If you're not familiar with Safety Harbor, it's a hidden gem between Tampa and Clearwater with distinctive shops, award-winning restaurants and pubs in a quaint setting—all within walking distance of this historic resort and world-class spa. You won't want to miss this one!

Our program committee is developing an interesting and educational agenda of sessions and speakers who will discuss the latest developments in the solid waste industry. This will be an excellent time to share with and learn from your peers. For industry suppliers and service providers, this is a great opportunity to showcase your company's products and services. Join us February 20-22 to network with some of the best minds in the solid waste industry, earn continuing education hours, enjoy beautiful Tampa Bay, and Reconnect, Renew and Recharge. Register today!

ADDITIONAL DETAILS CAN BE FOUND ON THE CHAPTER WEBSITE.

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### **Existing Local Transfer Stations:**

Volusia County  
Brevard County  
Hillsborough County (2 locations)  
Suwannee County  
City of St. Cloud  
City of Clearwater  
City of Tampa (3 locations)  
Miami-Dade County





# A Route with a View

**Gene Ginn**

Cart-based RFID systems have been in the waste industry for 10+ years, giving us a basic idea of what is happening in the field of Automated Side Loader (ASL)

collections. Have you, as a waste service provider, ever thought of having more visibility into your routes or giving your drivers a simple and silent way to communicate with your Customer Service Representatives (CSRs) in the office? The City of Lakeland has been testing a system with Rehrig Pacific that does just that. The system opens the window for CSRs to see real-time automatic and driver-initiated pictures to address customer non-service issues, such as ‘cart not out’ or ‘contaminated recycling’ along with ‘hazardous materials in the cart’ or additional services beyond normal garbage and recycling cart collections. This RFID-based camera system being tested allows drivers to instantly communicate with CSRs who can use the information and pictures to keep customers informed and accountable along with knowing when customers need additional service beyond the normal cart collections.

## Customer Challenges

The City of Lakeland Solid Waste has been using Rehrig Pacific’s RFID Vision™ readers and software, which

have been in place since the inception of its city-wide ASL carted garbage and recycling programs began in 2013. The challenges of the standalone RFID system, according to Lakeland’s CSRs is the single cart in the middle of a

Photo of 65R018299 collected on 10/5/2021 8:04:52 AM at [redacted] well St, Lakeland, FL 33803, USA



*Clean Recycling or Cart Serviced*

long string of carts that did not have its RFID tag read. The CSRs would constantly hear from customers: “Are you calling me a liar? I had my cart out the night before and your driver

Photo of Cart Not Out captured on 10/5/2021 9:22:50 AM near [redacted] meden Dr, Lakeland, FL 33803, USA



*Cart not out*

just drove past it.” The pictures of empty curbs or even the cart still sitting next the house are extremely

valuable to our CSRs dealing with non-service customer issues.

## Reducing Contamination

The RFID system uses two cameras linked to the RFID reader with each

serving a different purpose. Camera one is focused on the hopper and a picture is initiated automatically by the read of the cart’s RFID tag. Then, the system associates the picture to the address by the cart’s assigned service address and reverse geo-coded by GPS location as another method to verify the cart is in the correct location. The most frequent use of this picture has been communicating with

recycling customers regarding non-recyclable items or the cart not being serviced when, in fact, it was—now, we have photo evidence. Having a picture to e-mail customers is used

primarily to educate and enforce as warranted helping us to maintain a recycling contamination rate of 10% or less. The driver-initiated button push for contamination on our recycling truck associates the hopper picture with the read RFID tag and is reviewed by our CSRs, who then mail the customer a letter with educational information about our recycling program.

Camera two is the driver initiated curbside camera and only takes a picture when a driver encounters

Photo of 65R028063 collected on 10/7/2021 9:21:20 AM at [REDACTED] Dr, Lakeland, FL 33805, USA



*Contaminated Recycling*

Photo of Large Brush Pile captured on 7/16/2021 11:47:05 AM near [REDACTED] Dr, Lakeland, FL 33813, USA



*Large Brush Pile for Collection*

one of three hot issues and activates the camera by the simple push of a button in the cab. The garbage ASL buttons are used for extra dumps of the reloaded garbage cart, cart not out for service, and a large brush pile to add the address to the claw truck work order list for collection. Camera two for the recycling ASL buttons identifies carts not out for service, visible contamination in the cart, and large bulk junk items, such as furniture or large appliances needing collection.

### **The Value of Insight**

Finally, seeing what has been going on in the collection field has been valuable to our recycling education programs and allows CSRs to quickly

resolve customer issues. One of the unanticipated benefits was the use of the cameras to notify the CSRs instantly of additional services needed by customers to save time and fuel for our bulk claw truck collection operations. When you have insight into your routes, they truly do become a route with a view!

*Gene Ginn is City of Lakeland Solid Waste and Recycling Manager. He can be reached at (863) 834-8777 or e-mail [gene.ginn@lakelandgov.net](mailto:gene.ginn@lakelandgov.net).*

*Photos courtesy of the City of Lakeland.*

## Advertising Opportunities Available

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

## Job Openings

Post an employment notice on the SWANA FL website for **FREE!**

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



# EPA Takes Steps to Reduce Methane Emissions from Landfills

**Ramon Rivera**

Early this year, the U.S. Environmental Protection Agency (EPA) implemented a 2016 Obama administration rule lowering the threshold at which landfills are required to install methane collection systems. Implementation of the rule will require an additional 93 landfills across the country to install landfill gas (LFG) collection systems. Once in effect, the rule will curb methane emissions from landfills in the U.S. by roughly 7 percent. Methane emissions from landfills is currently among the largest human sources of the potent greenhouse gas.

The EPA also notified around 40 states which do not have any agency-approved LFG capture plans in place that they must get an EPA-approved LFG capture plan. Failure to do so



*Featured Image by Z22, CC BY-SA 4.0, via Wikimedia Commons*

curb emissions. If Maryland adopts the EPA landfill rule, it would apply to just 10 % (four out of 40) of the state's methane-producing landfills.

## **Will Curbing Emissions from Landfills Help the Climate?**

Many climate scientists and activists feel numbers like that are not enough to sufficiently reduce climate warming, however, and that more needs to be done. Climate activists believe the EPA should have made the emission threshold even lower, which would have required smaller landfill sites to install landfill gas capture systems to curb their methane emissions.

A recent report by McKinsey and Company concluded the solid waste industry could curb methane emissions by 39% by the end of the decade using technology currently available on the market.

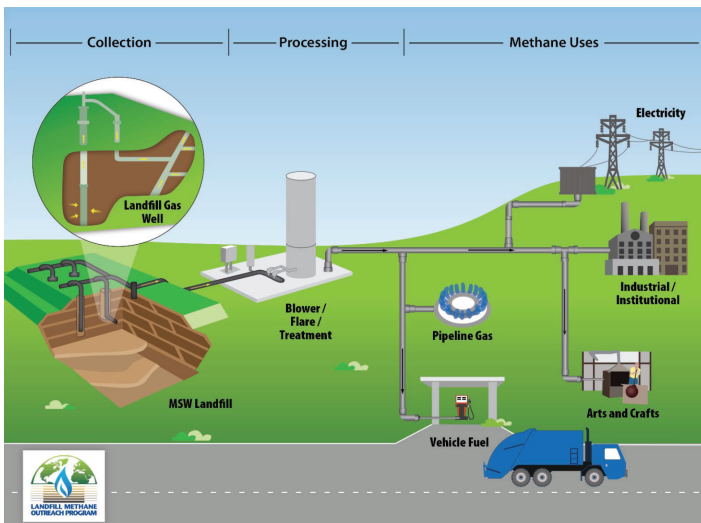
## **Composting and Waste-to-Energy Projects**

The Global Methane Report published by the UN in May 2021 takes things a step further calling for putting an end to disposing of organic waste such as paper and food scraps in landfills, and rather sending this waste to facilities that either compost it or use it as feedstock in biodigesters where methane is captured more efficiently and used as a source of energy.

Responding to the report, Dr. Joeri Rogelj, Director of Research at the Grantham Institute, Imperial College London, said, "Methane occupies a special place in the land of climate pollutants. Its emissions can be reduced rapidly with readily available measures, and this can impact temperature over the next decades. It not only causes climate damage, but also air pollution that leads to hundreds of thousands of premature deaths and crop harvest losses. Together, this costs the economy billions."

The McKinsey report states even outside of the agriculture industry, LFG collection systems for mitigating methane emissions are not only cost-effective but in some cases cost negative. This, on top of impending EPA regulations and constant warning from top experts in the field, will likely see a spike in the LFG collection systems across most of the top industries impacted by the persistent greenhouse gas.

*Ramon (Ray) Rivera is CEO of Diamond Scientific (Cocoa, FL). He can be reached at (321) 223-7500 or e-mail [info@diamondsci.com](mailto:info@diamondsci.com).*



*Image courtesy of EPA.*

would see the EPA implementing and enforcing their own plan within the state. Combined, the states in question contain roughly 1,600 landfill sites.

Maryland is one state introducing its own landfill methane regulations to



## Member News

### Miami-Dade County Department of Solid Waste Management Keeps Employees Through Training

**Michael Fernandez**

Trying to find, and keep, staff has become a big challenge nationwide as the COVID-19 pandemic has changed society in numerous ways. The Miami-Dade County Department of Solid Waste Management (DSWM), in partnership with its employee unions, is using its “training to promotion” program to deal with this challenge.

Basically, current employees—experienced and hard working—are offered training to prepare them for promotion to the next level within the organization. In addition to being good for employee morale, it helps DSWM keep employees who are not just experienced, but experienced within the DSWM system.

As part of this program, DSWM is looking to enhance its training systems. This is expected to help not only with drivers (many current DSWM training programs are focused on the various driver positions at DSWM), but with other staffing needs as well. “We believe that upgrading our training infrastructure will improve the filling of positions across operations,” said Michelle Sifontes, Chief, Human Resources Division for DSWM.

“Training fulfills critical, immediate needs for us, by preparing our own employees for new tasks and opportunities for growth within our own department,” Sifontes continues. “And it helps us long term, because we retain our good employees, they are



*A Miami-Dade County waste truck driver poses with his truck. DSWM provides waste collection and disposal services to more than 340,000 households in Miami-Dade County.*



*Michael Fernandez, Miami-Dade Solid Waste Director (in white) and Olga Espinosa-Anderson, Miami-Dade Solid Waste Assistant Director - Landfill Operations (in pink) attend a ceremony for graduates of a Waste Truck Driver Training to Promotion class.*

better prepared and better trained, and they appreciate that we are making an investment in them.”

A glance at DSWM’s most recent monthly training calendar shows a full schedule, with several classes taking place on every weekday (including holidays). Classes such as Supervisory Leadership Development and Trash Crane Operator Training to Promotion keep both instructors and students busy and prepare the students

for the next step up the career ladder.

Under the leadership of Division Chief Trinese Lamb, the Labor Relations, Safety, and Training Division, Training and Development staff go above and beyond to ensure that employees receive quality training in all areas that enhance skills both administratively, as well as within the operations. The Driver/Operator training programs incorporate real-time on the job training experiences such as night shift training, waste collection of actual garbage routes, and collection of trash at the Neighborhood Trash and Recycling Centers, and disposal of waste at the landfills, etc. A full day of safety and employee wellness is also incorporated into each Training to Promotion class. “Investing in our employees pays off both for us and for the employees themselves, and the main beneficiaries are our customers,” said Sifontes.

The DSWM provides waste and recycling services to residents in the unincorporated areas of Miami-Dade County and several municipalities, as well as mosquito control services countywide.

*Michael Fernandez is Director of the Miami-Dade County Department of Solid Waste Management. He can be reached at (305) 514-6626 or e-mail [mfern@miamidade.gov](mailto:mfern@miamidade.gov). For more information about the DSWM, visit [miamidade.gov/solidwaste](http://miamidade.gov/solidwaste).*

## Member News

### News from SWANA Caribbean-Puerto Rico Chapter

#### Environmental Engineers Institute (IIAM, in Spanish) Student Chapter at the Polytechnic University of PR (PUPR)

The SWANA Caribbean Chapter, based in Puerto Rico, strongly supports efforts set forth by the Environmental Engineers Institute (IIAM, in Spanish) Student Chapter at the Polytechnic University of PR (PUPR). This group integrates students from the Environmental Engineering Program, some of whom are also SWANA Student/YP Members. Some recent highlights follow.

##### *Fajardo's Landfill Facility*

The student chapter of the Environmental Engineering Institute visited the landfill system in Fajardo, Puerto Rico. They had the opportunity to see several portions of a landfill system, including the installation of a liner system of a new cell. They saw firsthand the different liner alternatives that are installed in this cell.

Additionally, they had the opportunity to visit the landfill gas-to-energy (LFGtE) facility, where gas is used to generate electricity for use at the site.

Finally, participating students were able to see in the field diverse concepts that they learned or will learn in class related to sanitary landfill systems.

##### *Networking Event*

Throughout the COVID-19 pandemic period, all opportunities and activities that students could participate in were virtual. The “Back-to-School Meet & Greet” was the first activity during this pandemic in which students could meet each other and do some networking between students, peers and professionals. Environmental and chemical engineering students participated in the event and had the opportunity to make themselves known to other students, professors and even professionals in the field. Professionals from organizations such as the Institute of Environmental Engineers of Puerto Rico, the Institute of Chemical Engineers, and the Solid Waste Association of North America (SWANA) Caribbean-PR Chapter attended the activity. Orientation included introductions of notable professionals and students as well as recognition of the Professional Environmental Engineers Institute's (IIAM CIAPR) Distinguished Professional, Eng. Fernando L. Rodríguez, PE, and President of

SWANA Caribbean. The event provided space for students to network and communicate knowledge and ideas.

##### *Coastal Cleanup*

The PUPR student chapter of the Environmental Engineering Institute, in collaboration with Components of the Professional College of Engineers and Land Surveyors (CIAPR, in Spanish), participated at the International Coastal Cleanup (ICC) event at the Soleil Beach, Piñones, island-wide. The event was led by Scuba Dogs who divided the groups by color and gave each group an area. Per COVID-19 pandemic restrictions, group numbers were lower than in previous years. Cans, napkins, cigarettes, glass bottles, plastic wrap, even diapers and chairs were some examples of the waste collected. In perspective, a single group of students collected about 156 pounds in only four hours. The students had the opportunity to experience the reality of the island regarding waste and its mismanagement as well as learning from a seasoned coastal cleanup Captain, Eng. Yulianna de la Cruz, also representing the Carolina Chapter of CIAPR. We are grateful to the 25 students, professionals, and the





community that helped clean this portion of our island and look forward to leading similar efforts as Cleanup Captains in the future.

*Both professional organizations have provided space for this student group's content on their websites. For more information, visit [www.swanacaribbean.com/chapter/YP](http://www.swanacaribbean.com/chapter/YP) or <https://iiam.ciapr.org/capitulo-estudiantil/>.*





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### **Sponsorship Opportunities**

We invite you to become a sponsor of the SWANA FL 2022 Winter Conference. As a conference sponsor, your organization will be recognized as a valued supporter. All general and exclusive sponsors will receive recognition as follows:

- \* In pre-conference promotional emails
- \* On the SWANA FL website
- \* On conference signage and in program
- \* On screen prior to the conference general sessions and during all breaks

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. Registration deadline for sponsors to be included in participant materials and on signage is January 28, 2022.

#### **GENERAL**

- ☐ Platinum Sponsor - \$2,000
- ☐ Silver Sponsor - \$1,000
- ☐ Gold Sponsor - \$1,500
- ☐ Bronze Sponsor - \$500

#### **EXCLUSIVE** *(available on a first-come, first-served basis)*

- ☐ Sunday Welcome Reception - \$3,000 - includes sole recognition at the reception and one full-conference registration
- ☐ Monday Lunch - \$4,000 - includes sole recognition at lunch, one full-conference registration and half-page ad in conference agenda
- ☐ Monday Dinner - \$5,000 - includes sole recognition at dinner, one full-conference registration and full-page ad in conference agenda
- ☐ Tuesday Lunch - \$4,000 - includes sole recognition at lunch, one full-conference registration and half-page ad in conference agenda
- ☐ Water Bottle - \$2,000 - includes logo on reusable water bottle that will be distributed to all attendees
- ☐ Conference Bags - \$1,500 - includes logo on bags that will be distributed to all attendees
- ☐ Name Badge Lanyards - \$1,500 - includes logo on lanyards that will be distributed to all attendees

Have other sponsorship ideas? Contact us at 727-940-2393 or [info@swanafl.org](mailto:info@swanafl.org) and let us know.

**To become a sponsor, register online at**  
**<https://cvent.me/KWP2V5>.**

*Reconnect. Renew. Recharge.*

## SWANA FL 2022 WINTER CONFERENCE

FEBRUARY 20-22 | SAFETY HARBOR RESORT & SPA

REGISTER ONLINE AT [HTTPS://CVENT.ME/KWP2V5](https://cvent.me/KWP2V5)

### Tabletop Exhibitor Information

**Enhance your product awareness and brand recognition! Increase your sales and outreach capabilities!**

Don't miss this opportunity to showcase your products and services during Florida's premier solid waste conference. The SWANA FL 2022 Winter Conference will take place at the Safety Harbor Resort and Spa in Safety Harbor, Florida, February 20-22, 2022.

- ⇒ **Act quickly!** There are limited tabletop exhibit spaces available.
- ⇒ The tabletops will be located in the Baranoff Lobby, which is adjacent to the general session room. Attendees must walk through the tables to access the general session room.
- ⇒ All morning and afternoon breaks will also take place in the Baranoff Lobby.
- ⇒ All exhibitors will receive one draped 6-foot table. All display materials must fit on top of the table. Exhibitors may not move tables to make room for large displays.
- ⇒ Table number/location will be assigned based on registration date. Register early for placement in high traffic areas!
- ⇒ If you register by January 21, tables are only \$600 for members and \$750 for non members.
- ⇒ Each exhibitor registration includes one full-conference registration. Each additional person from your organization must register for the conference separately.
- ⇒ Registration deadline for exhibitors to be included in participant materials and on signage is January 28, 2022.

### Exhibitor Schedule

#### Monday

**6:30 - 8:30 a.m.**

#### Set-Up

Please set up as early as possible to take advantage of morning traffic. Breakfast is being served in a nearby room from 7:30 - 8:30 a.m. Attendees will be walking through the Baranoff Lobby to get to the general session, which begins at 8:30 a.m.

**7:30 a.m. - 5:00 p.m.**

Attendees will walk through the tabletop exhibits whenever they go to/from the general session room. In addition, morning and afternoon breaks will be set in the Baranoff Lobby.

#### Tuesday

**7:30 a.m. - 3:00 p.m.**

Attendees will walk through the tabletop exhibits whenever they go to/from the general session room. In addition, the morning break will be set in the Baranoff Lobby.

**3:00 - 4:00 p.m.**

#### Tear-Down

All tables must be cleared by 4 p.m.



## Talking Trash Newsletter

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## Upcoming SWANA FL Chapter Events

### 2022 Winter Conference

February 20-22  
Safety Harbor, FL

### 2022 Road-E-O

April 22-23  
Fort Myers, FL

### 2022 Summer Conference

July 25-27  
Naples, FL

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**SWANA**  
CHAPTERS

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