



*A Joint Event with the  
Carolina Recycling Association's  
26<sup>th</sup> Annual Conference  
& Trade Show*

# **MANUFACTURERS ZERO WASTE CONFERENCE**

## **March 22 & 23, 2016**

Wilmington Convention Center  
Wilmington, NC



*This two-day, peer-sharing conference will address a variety of zero waste-to-landfill programs, issues and challenges facing manufacturers and businesses in North Carolina, South Carolina and across the region.*



## A Peer Sharing Event for Businesses

The Manufacturer's Zero Waste will feature an agenda that helps manufacturers and other large generators learn and navigate the path away from dependence on landfill disposal. Attendees will also have access to recycling professionals attending the CRA conference and an exhibit hall with recycling, composting, and other diversion services vendors.

### Who should attend the Manufacturer's Zero Waste Conference:

- Manufacturing companies and their suppliers pursuing or committed to zero waste to landfill (ZWTL)
- Large commercial and institutional waste generators interested in ZWTL
- Service providers who help reduce, recycle, compost, or otherwise divert materials from landfill disposal
- Government agencies and consulting firms providing assistance to ZWTL companies
- Economic development agencies, chamber of commerce staff, and other business professionals who want to learn more about the growing ZWTL trend.

### Conference Agenda

#### TUESDAY, MARCH 22

8:00am – 5:00pm	Registration Desk Open	
8:30 – 10:30pm	WORKSHOP: Zero Waste to Landfill 101	E&F
10:30 – 11:00am	Break	Concourse
11:00am – 12:30pm	ZW SESSION I: Environmental Leadership Through Zero Waste	E&F
12:30 – 1:30pm	Lunch in Concourse Area	Concourse
1:30am – 2:45pm	ZW SESSION II: Practical Approaches That Work	E&F
2:45 – 3:00pm	Break	Concourse
3:00 – 4:30pm	Zero Waste Flea Market	E&F
4:30 – 6:30pm	Grand Opening Reception in Exhibit Hall	Exhibit Hall

#### WEDNESDAY, MARCH 23

8:00am – 5:00pm	Registration Desk Open	
8:00am – 6:30pm	Exhibit Hall Open	Exhibit Hall
8:00 – 9:00am	Breakfast	Exhibit Hall
9:00 – 10:00am	JOINT GENERAL SESSION: Paths to Sustainability – Corporate Leadership in Zero Waste and Recycling	ABC
10:00 – 10:30am	Break	Exhibit Hall
10:30 – 11:30am	ZW SESSION III: Reduce & Reuse Before Recycling	E&F
11:30am – 12:00	ZW SESSION IV: Navigating Waste-to-Energy Choices	E&F
12:00 – 1:30pm	Lunch	Exhibit Hall
1:30 – 3:00pm	ZW SESSION V: Going for the Last Few Percent!	E&F
3:00 – 3:15pm	Conference Wrap-Up	



# ZERO WASTE SESSIONS

## TUESDAY, MARCH 22

**8:30 – 10:30am**

### WORKSHOP: Zero Waste to Landfill 101

Business and industrial participants will learn the basics of launching and running a Zero Waste-to-Landfill program at their facilities. In an interactive and training-paced environment, peer presenters will cover topics of getting started, green teams, dumpster dives, tracking progress, and cost-effective approaches. Technical assistance presenters will share a number of valuable tools, resources, and examples to empower attendees to successfully develop their own ZWTL initiatives.

**MODERATOR:** Davy Conners, North Carolina Division of Environmental Assistance and Customer Service

**SPEAKERS:** Angela Barger, NC Div of Environmental Assistance and Customer Service; Stacey Washington, SC Dept of Health and Environmental Control; Jan Foster, Waste Reduction Partners; Sandra Carter, Daimler Trucks North America; Ryan Pennington, Daimler Trucks North America

**11:00am – 12:30pm**

### ZW SESSION I: Environmental Leadership Through Zero Waste

NCDEQ Secretary Donald van der Vaart will open the conference expressing the importance of environmental leadership taken by the corporations in attendance. Welcoming remarks will be provided by John Loyack with Economic Development Partnership of North Carolina. Hear the inspirational journey of sustainability from a major global manufacturer and its zero waste-to-landfill achievements. Kate Bachman, Editor of the Sustainable Manufacturers Network, will share national perspectives on zero waste trends, definitions of zero waste and certifications, and inspiring stories and goals of spotlighted manufacturers.

**MODERATOR:** Terry Albrecht, North Carolina Division of Environmental Assistance and Customer Service

**SPEAKERS:** John Loyack, Economic Development Partners of North Carolina; Kate Bachman, Sustainable Manufacturers Network; John Janes, Building Construction Products & Ag, Caterpillar, Inc.

**1:30 – 2:45pm**

### ZW SESSION II: Practical Approaches That Work

Hear the perspectives of North and South Carolina manufacturers on the cornerstones of their zero waste-to-landfill programs. What were the key steps in establishing vendor partnerships, rallying internal support through dumpster dives and waste assessments? How does proper program design, material collection, and employee engagement assure successful ZWTL programs? Learn about these approaches and pose your own questions to the speakers in this interactive session.

**MODERATOR:** Stacey Washington, South Carolina Department of Health and Environmental Control

**SPEAKERS:** Dan Frisbee, PRC Industries; Grover DeHart, Borg Warner Thermal Systems; Diana Joyner, Westinghouse

**3:00 – 4:30pm**

### Zero Waste Flea Market

Participate in the Zero Waste Flea Market, a “reverse trade show” session where manufacturers have the opportunity to exhibit by-product materials (waste) to recycling vendors. Manufacturers are encouraged to bring information on their most challenging waste stream, as well as information on all their discards collectively. Participants will have an opportunity to discuss these materials with specialty vendors and potentially identify options to divert those materials from the landfill or waste-to-energy facilities. You should pre-register for this session and receive instructions on how to participate from Jamie Ragan at [jamie.ragan@ncdenr.gov](mailto:jamie.ragan@ncdenr.gov) or 919-707-8141.

**MODERATOR:** Jamie Ragan, North Carolina Division of Environmental Assistance and Customer Service

#### ***Ready to join us for the Flea Market?***

Contact Jamie Ragan with NC DEACS to sign up at 919-707-8141 or [jamie.ragan@ncdenr.gov](mailto:jamie.ragan@ncdenr.gov).

# ZERO WASTE SESSIONS

## WEDNESDAY, MARCH 23

**9:00 – 10:00am**

### **JOINT GENERAL SESSION: Paths to Sustainability – Corporate Leadership in Zero Waste and Recycling**

Global companies with a footprint in the Carolinas are demonstrating progress toward sustainability. In this joint conference session, get to know two brand-name companies committed to zero waste in their facilities, working to improve recycling, and reducing the environmental impacts of packaging and products. This session will combine the Manufacturers Zero Waste and CRA Conference audiences to enhance our mutual education and recognize our shared interest in corporate environmental leadership.

**MODERATOR:** Scott Mouw, North Carolina Division of Environmental Assistance and Customer Service

**SPEAKERS:** Julie Zaniewski, Unilever, North America; Greer Tidwell, Bridgestone Americas

**10:30am – 11:30pm**

### **ZW SESSION III: Reduce, Reuse - Before Recycling**

A high priority for all manufacturers is to reduce waste at the source. Learn how these peer manufacturers are addressing the redesign and reuse of product and in-process packaging and dunnage. Hear how businesses have transitioned the deployment of more efficient material handling and transport systems. Presenters also will address other successful material and chemical reuse strategies.

**MODERATOR:** Angela Barger, North Carolina Division of Environmental Assistance and Customer Service

**SPEAKERS:** Wes Westbrooks, BMW Manufacturing Company; Jodie Fleming, Timken Company; Jane Woodall, EMC Corporation

**11:30am – 12:00pm**

### **ZW SESSION IV: Navigating Waste-to-Energy Choices**

A major manufacturer will share its approach to selecting Waste-to-Energy solutions for residual wastestreams that have no recycling outlets. Learn how to identify, review, screen, and select a waste-to-energy service provider that meets your needs.

**SPEAKER:** Matt Campanaro, Kimberly-Clark

**1:30 – 3:00pm**

### **ZW SESSION V: Going for Last Few Percent**

This dynamic and interactive session will address managing challenging, non-routine, and unique situations which make recycling solutions difficult. Hear how diverse businesses have handled organics recycling, planned for new construction projects, deployed new technologies and procedures for recycling foams and films, and collaborated to attract vendors to service rural sites. Take home ideas to tackle the remaining challenges of your ZWTL program.

**MODERATOR:** Jan Foster, Waste Reduction Partners

**SPEAKERS:** Chay Bennett, Honda of South Carolina Mfg., Inc.; Samuel Vedder, Grifols Therapeutics, Inc.; Scott Fister, Caterpillar, Inc. Building Construction Projects; Dan Stone, Leggett & Platt - High Point Furniture

## **Conference Presenters**

Presenters include business leaders from the following companies and organizations.

- Bridgestone – Americas
- Borg Warner
- Caterpillar
- Daimler Trucks – North America
- Grifols Therapeutics
- Honda
- BMW Manufacturing Co.
- Kimberly Clark
- Leggett and Platt
- N.C. Department of Environmental Quality
- PRC
- S.C. Department of Commerce
- S.C. Department of Health and Environmental Control
- Timken Company
- Unilever North America
- Waste Reduction Partners
- Westinghouse
- And More!



# KEYNOTE SPEAKERS

## WEDNESDAY, MARCH 23



**9:00 – 10:00am**



### Julie Zaniewski...

is the global R&D packaging sustainability manager for Unilever. In her role, Julie focuses on driving programs to reduce waste through packaging design, emerging technologies, end-of-life recycling and recovery initiatives. She is actively involved in several industry groups, including the Association of Postconsumer Plastics Recyclers, the advisory panel for The Closed Loop Fund and the Executive Committee for the Sustainable Packaging Coalition.



### Greer Tidwell...

serves as Director of Environmental Management for Bridgestone Americas Manufacturing Group (Bridgestone), where he leads environmental performance, compliance, and reputation progress for the company's North and Central American facilities. Greer has overseen initiatives that contribute to the company's leadership in environmental sustainability, including the ISO14001 certification of all of the company's tire manufacturing facilities. Tidwell actively serves on the Board of the National River Network and the Friends of Radnor Lake State Park, and has served as Chair of the Tennessee Air Pollution Control Board and as President of the Tennessee Conservation League. Tidwell has engineering degrees from Baylor University and Tennessee Technological University, and earned a Juris Doctorate from Vanderbilt University

**Manufacturers Zero Waste Sponsor**



### About the Organizers

The CRA is proud to co-host the 2016 Manufacturers Zero Waste Conference working in conjunction with the N.C. Department of Environmental Quality, the S.C. Department for Commerce and S.C. Department of Health and Environmental Control.

2016 Conference design donated by:



**Waste Pro USA, Inc** .....

Brandt Hunter  
407-869-8800 • bhunter@wasteprousa.com  
Waste Pro is one of the fastest growing, privately owned solid waste companies, serving 8 states and two million customers with commercial and residential solid waste and recycling collection, processing, and disposal services from more than 75 locations. Waste Pro proudly provides service for more than 500 cities, in 21 countries throughout our footprint.

**WEIMA America, Inc** .....

Dale Walker  
803-802-7170 • dale.walker@weimaamerica.com  
WEIMA is a world leader in recycling technology. We specialize in the industrial shredding of plastics, wood, paper, carpet, textiles, and mixed manufacturing waste. The goal is simple: to save you money in haul-away costs and to keep scrap out of landfills.

**Zimmer America Recycling Solutions** .....

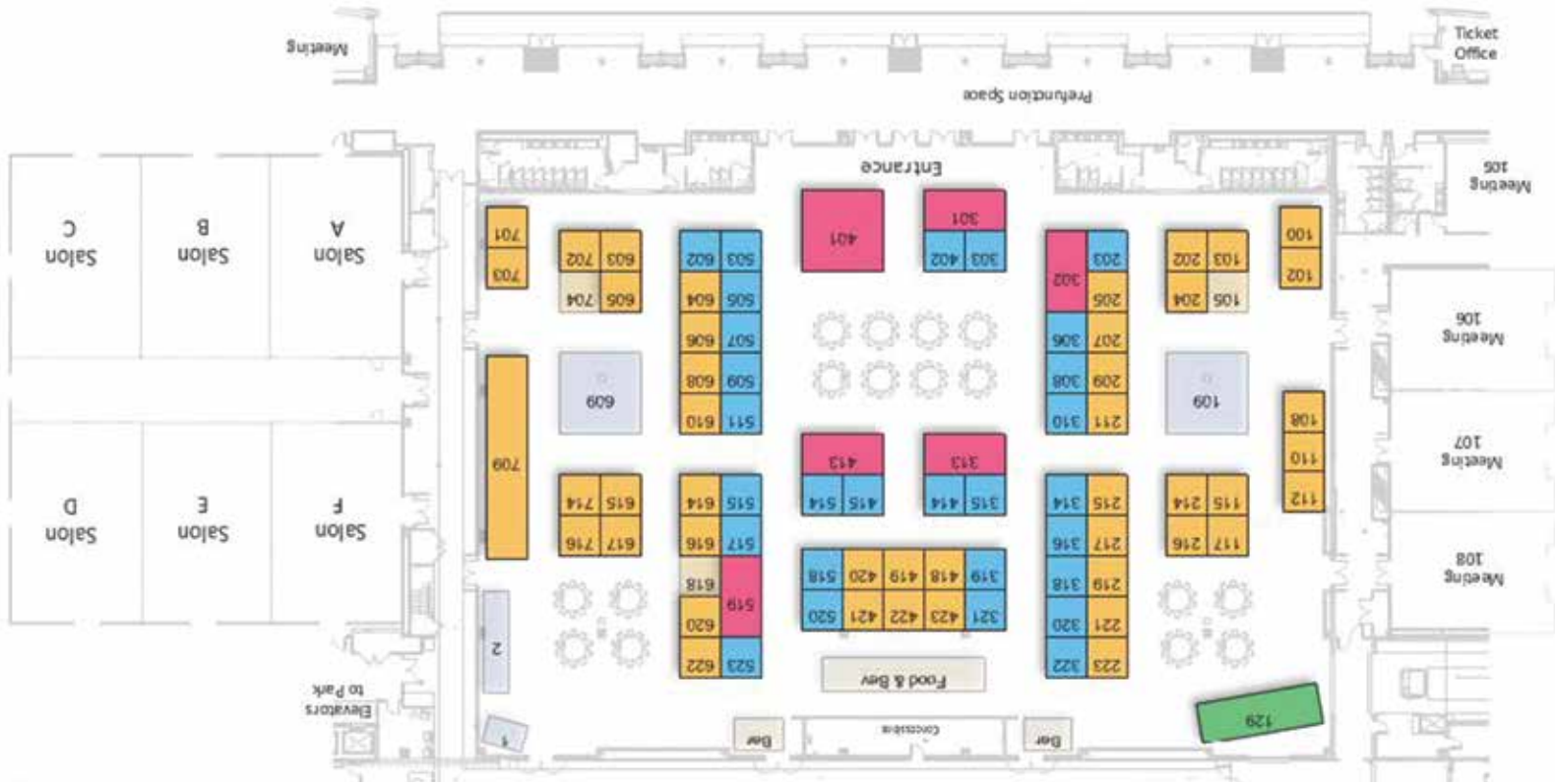
Roland Zimmer  
864-464-0007 • rzimmer@zimmer-usa.com  
Zimmer America Recycling Solutions is a technology solutions provider for plastic recycling machinery and turn-key plants: STF rPET-bottle-to-bottle installations, STF plastic sorting & washing lines, STF Dry Label Removal, STF Wet & Dry Grinders, ARTEC modular extrusion plants (Feeding, Cutting-Compacting, Extruding, Degassing, Filtration). Sales, installation, after-sales service, spare parts.

**GEEP, Inc (Global Electric Electronics Processing)** Booth 618

Carole Freeman  
720-363-1163 • cfreeman@geeppglobal.com  
GEEP (Global Electric Electronic Processing) is a global leader in electronic asset management and end-of-life electronics recycling. GEEP is committed to enabling the safe and secure reuse of electronics, recovery of natural resources from obsolete electronics, and safe and responsible recycling of electronics to divert waste from landfill. GEEP has locations across Canada, the United States and Costa Rica.

# Facilities Layout

## Wilmington Convention Center



Printed on recycled paper.

**Trex Company, Inc** • • • • • **Booth 617**

Stephanie Hicks  
540-542-6494 • shicks@trex.com  
Trex Company is the nation's largest manufacturer of wood-alternative decking and railing with 20 years of product experience. Trex turns millions of pounds of recycled plastic film and scrap waste wood into Trex products. Trex purchases approximately 200 million pounds of used polyethylene film and scrap hardwood sawdust each year, materials that would normally end up in a landfill.

**Universal Environmental Services** • • • • • **Booth 112**

Bill Laursen  
803-979-1212 • blaursen@universalenviron.com  
Universal Environmental Services provides used oil, oil filter and antifreeze collection. We also provide Vac truck services.

**Verity Recycling** • • • • • **Booth 103**

Keila Polidan  
336-465-4864 • keila@verityresins.com  
Verity Recycling is an innovative plastics recycling company located in Forest City, North Carolina. We offer full service recycling programs, certified destruction and state of the art custom compounding. Verity comes from the Latin word for "true." This is the mindset that permeates everything we do with our customers, suppliers and employees. Our simple objective is to provide the highest quality products and service at a fair price.

**VL5 Recovery Services, LLC** • • • • • **Booth 108**

Phillip Mcabee  
864-962-9953 • phillip.mcabee@vl5rs.com  
VL5 Recovery Services operates one of the nation's leading



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full service non-regulated waste processing facilities in Mauldin, South Carolina. Services provided include industrial recycling and beneficial re-use, full service waste water treatment, supplemental fuel management, landfill solidification/preprocessing. VLS recently opened in Gray Court, South Carolina a 30,000 square-foot Industrial Recycling Facility (IRF) this is a one-of-a-kind industrial waste processing center providing the industry's most affordable solution to zero landfill compliance.

**Waste Industries** • • • • • **Booth 303**

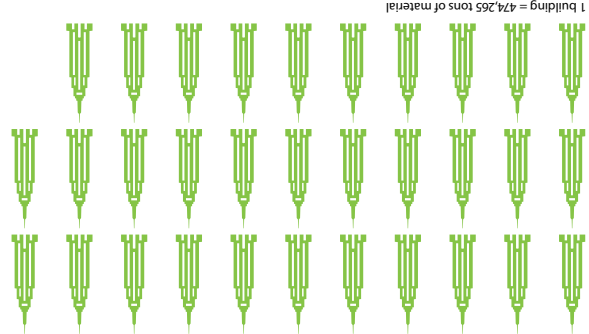
Norma Yanez  
252-241-2056 • norma.yanez@wasteindustries.com  
Waste Industries, LLC is a regional, vertically integrated solid waste service and recycling company. We provide solid waste collection, transfer, disposal and recycling services to commercial, industrial and residential customer locations in North Carolina, South Carolina, Virginia, Tennessee, Maryland, Kentucky, Delaware and Georgia. Our principal operations consist of 37 collection operations, 23 transfer stations, approximately 72 county convenience drop-off centers, 12 recycling facilities and 8 landfills serving more than 836,000 municipal, residential, commercial and industrial service locations. We have provided efficient, innovative, cost-effective solid waste solutions for our customers since 1970.

**Waste Management Recycling** • • • • • **Booth 315**

Mandy Taylor  
919-796-2550 • ataylor8@wm.com  
Waste Management is the largest waste hauler and recycler in the Country. We go beyond the landfill and help our customers achieve all of their sustainability goals.

Last year, we recycled or reused enough material to fill the Empire State Building more than 32 times.

Find out more at [ThinkGreen.com](http://ThinkGreen.com)



With your help, we aim to nearly double that number by 2020. As North America's largest residential recycler, Waste Management managed more than 15 million tons of material that was recycled or reused in 2014. That's including organic materials that we're now recycling more of than ever before. These are the types of resources that make us a sustainability solutions partner you can rely on.

For more information call .



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THINK GREEN.

**Santee Cooper** ..... Booth 316

Rusty Smith  
843-761-8000 x5186 • rsmith@santeecoop.com

Santee Cooper - also known as South Carolina Public Service Authority - is a state-owned electric and water utility with corporate offices in Moncks Corner, SC. Santee Cooper provides power to more than 2 million South Carolinians and drinking water to 119,000 Low Country homes.

**Schaefer Systems International, Inc** ..... Booth 202

Larry Wiegman  
704-904-7925 • larry.wiegman@ssi-schaefer.us

Santee Cooper - also known as South Carolina Public Service Authority - is a state-owned electric and water utility with corporate offices in Moncks Corner, SC. Santee Cooper provides power to more than 2 million South Carolinians and drinking water to 119,000 Low Country homes.

**Smith Gardner Inc** ..... Booth 420

Debbie Langley  
803-730-8468 • debbie@smithgardnerinc.com

Smith Gardner, Inc.'s staff has an in-depth understanding of technological breakthroughs as well as innovations in diversion techniques that increase recycling rates. These include:

- Performing waste characterization studies to evaluate what recyclables are present in the waste stream and how to increase our clients' ranking for recycling percentage. Our experts can assist in revising your recycling efforts through community outreach, technological advancements and finding alternate markets to avoid disposal.

- Evaluations of material recovery facilities, either existing or proposed to better understand the most effective way to increase recycling and drive recovery forward. We have evaluated MRFs for single-stream recycling and "dirty" MRF technology.

- Maximizing reuse of organic materials through waste diversion and compost creation.

Further we provide MRF, Transfer Station and Convenience Center design, permitting and construction services.

**Sonoco Recycling, LLC** ..... Booth 401

Abby Tyner  
843-339-6362 • abby.tyner@sonoco.com

Sonoco Recycling, LLC, offers comprehensive recycling solutions tailored to meet your unique sustainable needs, regardless of scale or complexity. Our experience in recycling and waste diversion dates back nearly a century. Today, we operate 49 recycling facilities throughout the world, providing customized services and innovative sustainability solutions to more than 15,000 commercial, industrial, municipal and government entities.

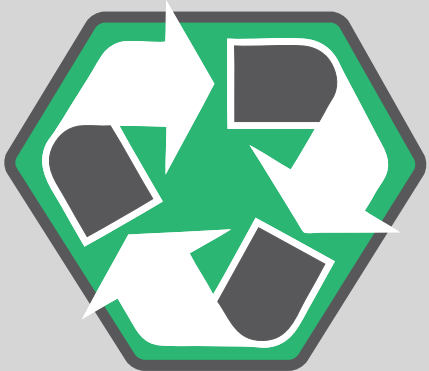
**Southeast Recycling Development Council** ..... Booth 714

Will Sagar  
828.507.0123 • will.sagar@serdc.org.....

SERDC works to unite industry, government, and non-government organizations to promote sustainable recycling in the Southeast through strong public-private partnerships, education, and by producing supportive tools, including research into recycling's economic impact in the region.

SERDC's membership base is composed of a diverse array of industry and public sector representatives committed to improving material capture in both quantity and quality to supply the growing manufacturing demand in the region. SERDC

# SUSTAINABLE WASTE PROGRAM



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believes improvements in supply will lead to a strengthening of state economies through recycling. While some of SERDC's content and tools are available for everyone to enjoy, members can access our member directory and connect to other leaders in the Southeast.

**Southeastern Agency Group Inc.** ..... Booth 421

Brice Crigler  
336-218-7470 • bcrigler@sagnc.com

We provide comprehensive insurance coverage for the waste and recycling industry through our Sustainable Waste Program. We work with municipalities, waste collection, transfer operations, material recovery facilities, scrap metal dealers, recycling operations and collection, portable restroom rental and service, cesspool and septic tank cleaning and service, C & D recycling and landfill operations, document shredders and much more.

**The Piedmont Group, Inc** ..... Booth 322

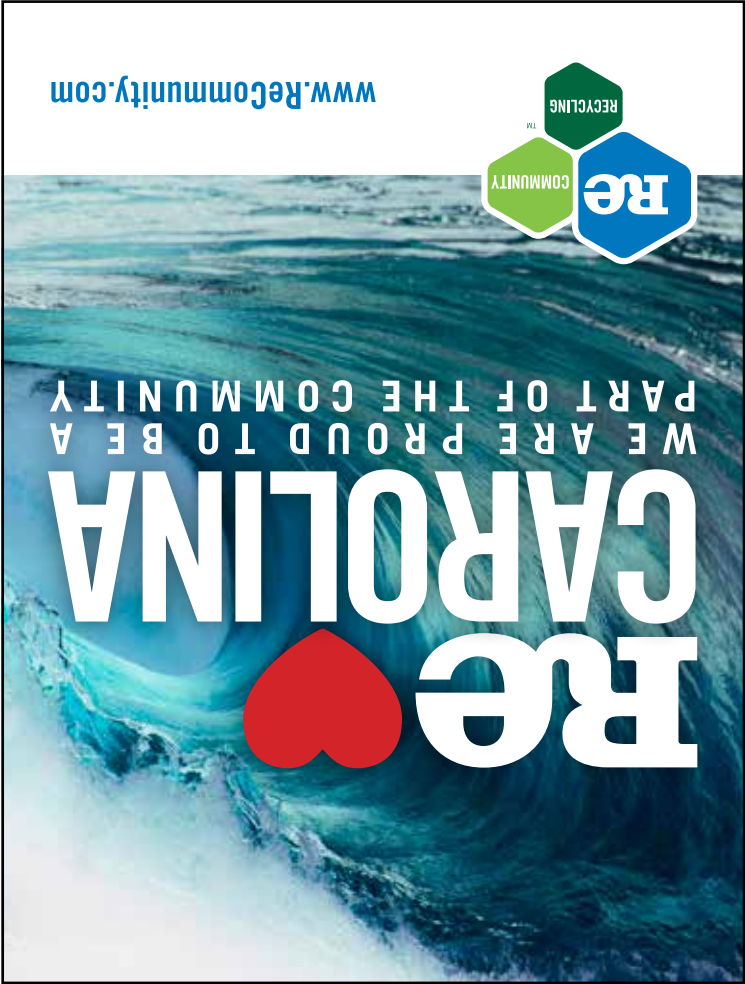
Ashley Reid  
1-800-313-3210 • cyclesorb@reid@gmail.com

Waste minimization by cleaning and reusing absorbents and wiping cloths

**Toter/Wastequip** ..... Booth 209

Debbie Johnson  
704-872-8171 • djohnson@wastequip.com

Toter is a manufacturer and marketer of high quality plastic containers for residential, industrial, commercial and retail accounts. Toter is the leading supplier of wheeled, roll out carts used for curbside automated waste and recycling by cities and private haulers.



**Recover Incorporated** ..... Booth 217  
 Elizabeth Roller  
 864-334-3212 • elizabethroller@recoverusa.com  
 Recover is a multi-commodity recycling brokerage house. We deal with various grades, in bale, roll, and skid form, and we sell both domestically and internationally. Recover was founded in 1994 by Bill McLellan, our niche market has always been grocery distribution. We manage the commodities out of some of the largest chains in the US.  
 Based in Greenville, SC Recover has the capacity to reach all 50 states. We partner with leading businesses throughout the U.S. to provide custom recycling solutions that reduce their costs and increase their bottom line.

**Recycling Management Resources** ..... Booth 102  
 Paige Denton  
 470-385-5866 • pdenton@recyclingmr.com  
 Recycling Management Resource has five full service plants. We can handle everything from trucking to sorting, storage, cutting, and baling in addition to brokerage opportunities. We have plants in Raleigh and Highpoint to service The Carolinas.

**Rehrig Pacific Company** ..... Booth 216  
 Brandon Becker  
 678-491-8573 • bbecker@rehrig.com  
 Here at Rehrig Pacific everything we do is driven by our belief of challenging the status quo. Our products are simple and easy to implement into existing systems. We integrate technology, and everything we do is driven by our relentless commitment to sustainability.

**Republic Services** ..... Booth 515  
 Shawn Brady  
 828-695-2062 • sbrady@republiscservices.com  
 We'll handle it from here, Republics tagline, lets our customers know that they can count on us to provide an effortless experience, backs the promise that we will be on-time, never miss a pickup and leave the area clean; supports our promise to deliver superior products and services to meet our customers needs; and remind customers about our environmental commitment.

**RRS & Carton Council** ..... Booth 414  
 Matt Hale  
 312-342-1676 • mtodd@recycle.com  
 RRS: From collection to processing and public outreach to policy, RRS has been driving and delivering results in recovery since 1986. Our team of consultants can help you decrease system costs, increase program revenues and build higher participant satisfaction. In short, RRS can provide you with the innovative, informed, actionable solutions you need.  
 Carton Council: Carton Council is a group of carton manufacturers united to deliver long-term collaborative solutions to divert cartons from landfills. The Carton Council seeks to reduce the environmental impact of these cartons by expanding recycling programs, both at home and at school, increasing carton recovery and continuously improving their environmental performance.

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### PBE Incorporated Booth 514

Rob Lamoree  
804-323-3519 • hamoree@pbe-usa.com

For over 30 years, PBE has been providing recycling and waste reduction systems throughout VA, WVA, and NC. We sell and service all types of balers, conveyors, and shredders. PBE is also a leading distributor of baling wire.

### Peninsula Plastics Booth 419

Ashley Clark  
905-871-4766 • ashley@penplast.com

Peninsula Plastics Ltd has custom designed curbside recycling and food waste containers to make waste diversion easier for municipalities and residents. Our curbside recycle bins (16 gallon and 22 gallon) and food waste containers (2 gallon and 13 gallon) are the only one in the industry that have custom lids available to suit any program. Ergonomic designs make them easier to use and more resistant to wear. Competitive pricing helps reduce program costs and provides solutions for any budget.

### Plastic Revolutions Booth 603

Emily Kelly  
410-215-2780 • ekellymeme@aol.com

Plastic recycler of HDPE Grind, wash and pelletize post consumer plastic. Process mix rigid. Offer Tolling service.

### PowerHouse Recycling Booth 301

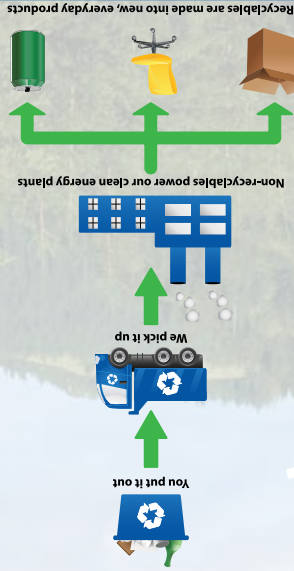
Brett Henderson  
704-322-3093 • bh@powerhouserecycling.com

PowerHouse Recycling Inc. is a certified electronics recycling and IT asset management company that holds high levels of

Our recycling division specializes in assisting our customers in their sustainability efforts, including zero landfill goals. The process starts with comprehensive waste audits for our customers and ends by diverting materials from landfills. These materials are then recycled and converted into new products. Every year Pratt diverts 1.8 million tons of waste paper, other recyclable materials and waste-to-clean energy materials from the landfill. Some items that cannot be recycled are used as fuel for Pratt's clean energy plant which powers the paper-making process. We close the loop!



CLOSING THE LOOP



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[recycle.prattindustries.com](http://recycle.prattindustries.com)

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OR  
(864) 423-5144

customer service at the core of all operations. PHR specializes in generating customized recycling solutions for each client that are dependable, efficient, and cost effective. Data center clean outs, secure data destruction, and on-site packaging are a few of many services offered. PHR earned the R2, ISO 14001, and OHSAS 18001 certifications along with N.A.I.D and WBENC memberships. PHR has a nationwide outreach with a core base in the Southeast.

### Pratt Recycling Booth 313

Mandy Barnett  
864-423-5144 • mbarnett@prattindustries.com

Pratt Recycling, Inc. is a subsidiary of Pratt Industries, the 5th largest corrugated packaging company in the USA and the worlds largest, privately-held 100% recycled paper and packaging company. Pratt utilizes a full service recycler collected in the production of its 100% recycled content paper and packaging solutions. Their mission is to create sustainable recycling solutions for their customers that maximize waste recycling, create cost savings and a revenue stream for valuable recyclables previously landfilled, all the while, minimizing the environmental impact by preserving natural resources for future generations. Please visit: [recycle.prattindustries.com](http://recycle.prattindustries.com)

### ReCommunity Holdings II, Inc Booth 518

David Lank  
704-697-2000 • david.lank@recommunity.com

ReCommunity provides recycling services for municipal partners at more than 30 locations in 14 states.

the field, SWANA offers workshops, training programs, technical association dedicated to the advancement of professionalism in municipal solid waste management systems. As an international non-profit, educational organization serving individuals and communities responsible for the management and operation of SWANA (Solid Waste Association of North America) is a

336-747-7310 • janm@cityofws.org

Jan McHargue

#### NC SWANA ..... Booth 117

increase the recovery of discarded materials.

Service provides technical and financial assistance to improve community recycling programs, expand recycling businesses, and

The NC Division of Environmental Assistance and Customer

919-707-8140 • tom.rhodes@ncdenr.gov

Tom Rhodes

#### NC DEACS ..... Booth 519

counter top pails up to 96 gallon liners for large collection bins.

available in a wide variety of sizes, from 3 gallon bags for kitchen

control odors while keeping collection bins clean. Natur-Bag is

strength and to breathe naturally, dissipating moisture to help

diversion programs. We engineered Natur-Bag for superior

compostable and integrate seamlessly in zero-waste and organic

community, and industry composting. Our products are 100%

collection of food scraps and other organic waste for home,

Natur-Bag® compostable bags and liners are used for the

763-225-6652 • rlbombardo@ntic.com

Rick Lombardo

#### Natur-Tec ..... Booth 319

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created longevity in all PHR business relationships.

logistics, attainable account representatives, and both timely and accurate reporting have

PHR has developed a customer first, high level of service brand. Prompt and dependable

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- WAREHOUSE SOLUTIONS

#### SERVICES:

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info@powerhouserecycling.com  
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Mike Olack

#### Omnisource Southeast ..... Booth 318

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Mark Leuner

#### Neustar Equipment LLC ..... Booth 223

management of municipal solid waste in North Carolina.

the practice of environmentally- and economically-sound

parent organization, the NC Chapter is committed to advancing

and has a current membership of approximately 550. Like its

The North Carolina Chapter of SWANA was formed in 1987

growing needs.

assistance, and certifications to help meet its members' ever-

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solid waste infrastructure and consumer waste reduction plays a significant role, and what we are doing here in our region to prevent and remove marine debris.

Several projects will be displayed, including the CRA sponsored eXpedition Amazon ocean plastic research and more.

## McGill Environmental Systems of NC, Inc. .... Booth 701

Katherine Sullivan  
910-465-1582 • ksullivan@mcgillcompost.com

McGill is a biodegradable waste recycling company composting residuals and byproducts from industrial, municipal, commercial and agribusiness sources. These materials are used as feedstocks in the manufacture of a line of branded compost products for the professional landscape, turfgrass and erosion control markets, as well as landscape supply retailers. Our composting facilities are in Virginia, North Carolina and Ireland.

## Metal Conversion Technologies ..... Booth 703

Steve Pledger  
678-721-0022 • steve@metalconversion.com

Metal Conversion Technologies, LLC is known exclusively for providing superior customer service. In 2003, MCT established its battery recycling facility just forty miles north of Atlanta in Cartersville, GA. In just twelve years MCT has recycled more than 17,000 tons of batteries, and is on track to recycle an additional 4,600 tons this year. Our battery process knowledge and expertise, combined with our patented battery recycling technology, has established MCT as the Low-Cost Leader in its marketplace.

Our turn-key service includes, but is not limited to, freight, collection containers, sorting, processing, and metal recovery via our patented High Temperature Metal Reclamation System.

## MetaTech Systems/General Kinematics ..... Booth 503

Paul Hanna  
843-237-5163 • paulhanna@metatechsystems.com

MetaTech Systems is a designer, manufacturer and installer of complete solid waste recovery systems. In partnership with General Kinematics for screening, Hartner GmbH for Ballistic Separators and Pellenc Selective Technologies for optical sorting, we offer complete systems from a very basic single pick line to completely automated sorting systems including material sizing, optical and magnetic sorting, materials identification and automated material handling for C&D, Single Stream, Multi Stream and RDF.

## MODRoto ..... Booth 604

Don Fowler  
864-551-1727 • dfowler@modroto.com

MODRoto designs and manufactures rotomolded plastic products for the laundry, recycling, material handling, lighting, pool/spa, event decor and other markets using the most sophisticated rotational molding system in the world. The company is a pioneer in the design and development of bulk carts, containers and other plastic products using rotational molding. Our custom molding division routinely earns awards for excellence in design innovation and rotomolding skill and is available to help transform an idea into a finished, plastic product.

## National Interstate Insurance Company ..... Booth 418

Lauren Fronczek  
800-929-1500 • lauren.fronczek@natl.com

When it comes to purchasing insurance to protect your operation, you need a financially strong and stable carrier that understands the unique needs of the waste and recycling industry. National Interstate is rated A (excellent), with a positive outlook, by A.M. Best Company and has once again been recognized by Forbes as one of America's Most Trustworthy companies.

**Linder Industrial Machinery Company.** . . . . . **Booth 221**

Jesse Mintz  
980-777-8345 • jesse.mintz@linderco.com  
Linder Industrial Machinery rents and sells new and used Komatsu and other heavy machinery including excavators, dozers, loaders and trucks.

**Machinex Technologies** . . . . . **Booth 308**

Rusty Angel  
336-665-2773 • range@machinextechnologies.com  
Machinex offers complete engineering design, manufacturing, and installation of Material Recovery Facilities. As a leader in sorting technologies, Machinex provides turnkey projects for the recycling industry such as Single-Stream, Construction & Demolition, Commercial & Industrial Waste, Municipal Solid Waste, and front-end processing for Waste-to-Energy plants. The company also offers a full range of high quality recycling equipment such as disc screen separators, ballistic separators, balers, trommels, optical sorting, conveyors, and much more. Over the years, Machinex experts have designed and installed over 350 turnkey facilities in partnership with leading MRFs in North America and Northern Europe.

**Marine Debris: A Global Crisis with Local Solutions** . . . . . **Booth 105**

Lisa Rider  
910-989-2107 • Lisa.Rider@onslowcountync.gov  
Lisa Rider, Onslow County Solid Waste Assistant Director, NC Marine Debris Symposium Coordinator, former CRA Amazon Crew, Plastic Ocean Project President, former CRA Board member, and Recycler of the Year 2011 will be on hand to present current marine debris issues on a global scale, how



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Rick Payne  
704-791-5567 • rpayne@libertytire.com  
Scrap tires collected by Liberty Tire Recycling are processed and refined by size-reduction techniques designed to achieve a range of particle sizes as small as 600 microns. Various mesh sizes of crumb rubber become the ideal raw material for a wide variety of applications, including molded rubber goods and adhesives.

**Lighting Resources** . . . . . **Booth 204**

Steve Barnett  
423-328-7012 • steve.barnett@lightingresourcesinc.com  
Lighting Resources is now one of the nation's largest recyclers of lamps, ballasts, batteries, thermostats and other mercury devices, electronic scrap, and tritium exit signs. Operating for over a quarter of a century, business continues to grow with increasing revenues every year.  
Though we service the nation, we are still small enough to understand your localized needs. More than any other company, we invest in state-of-the-art equipment to safely recycle lamps with the goal of achieving zero landfill. Lighting Resources operates the latest generation of lamp recycling equipment throughout the United States to better protect the environment and mitigate your environmental liability.

**Lindner America LLC** . . . . . **Booth 523**

Andreas Schwarz  
919-610-2835 • andreas.schwarz@l-r-us  
Lindner provides equipment to manufacture alternative fuel out of waste. We are specialized in providing shredding solutions for the waste industry.



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Since 1969, we have built a mountain of a steel company out of the scrap used to fuel our Electric Arc Furnaces. For us, recycling scrap into steel is about efficiently and sustainably producing a new generation of steel products to keep our nation moving forward.



**Hedstrom Environmental** .....

Ryan Hershiser  
419-282-5516 • dkeh1@hedstrom.com  
Hedstrom Environmental offers a variety of solid waste industry products, including the Unibody™ front and rear load poly-containers ranging in size from 1-8 yards. The Unibody™ design offers a completely plastic dumpster, recycle bin, or waste container without requiring any additional holes or accessories for use.

**HHW Council** .....

Jeremy Maciejewski  
919-219-8142 • jeremy.maciejewski@ncagr.gov  
The Carolina Recycling Association Household Hazardous Waste Council (HHW) consists of environmental experts from both the public & private sector. This group has extensive background in HHW with over 50 years combined experience and participation in over 100 HHW programs. The HHW Council operates as an environmental education organization devoted to household hazardous waste reduction, reuse, recycling and pollution prevention. We are a working Council and available to assist you in starting or improving your collection event.

**Keep NC Beautiful** .....

Brenda Ewanger  
919-828-2737 • nckab@carolina.rr.com  
KNCB, a non-profit 501(c)(3) organization is primarily a grassroots organization assisting communities with active beautification, anti-litter and recycling programs that save tax dollars for services provided by volunteers. KNCB develops partnerships that engage and empower organizations and

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Individuals to take greater responsibility to keep North Carolina Beautiful. KNCB was established in 1985 and certified as State Affiliate of Keep America Beautiful in 1990.

**Kiln Direct** .....

Bill Phillips  
704-301-2149 • bphillips@sumtertransport.com  
KilnDirect, Inc. a Materials Recovery Facility (MRF) that shreds and blends both liquid and solid non-hazardous, industrial streams; off-spec products, by-products, waste streams to form a solid, on-spec blended alternative high BTU fuel source. The MRF recovers various non-hazardous materials/recyclables that would otherwise be land filled as non-hazardous solid wastes. These materials, promote industrial waste minimization at the manufacturing source. The combination of the shredded materials, various liquid streams, and the addition of used industrial non-hazardous process oils form a high-energy engineered alternative fuel source.

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828-279-8129 • carley.porter@lpwiretie.com  
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## ECOFLO, Inc. .... Booth 219

Jessica Lightner  
704-779-0134 • jlightner@evtusa.com  
Enviro Vision is a plastic recycling company specializing in post industrial plastics. We focus on recycling polyethylene and polypropylene.

## Ecosafe Zero Waste ..... Booth 509

Ric Mallet  
604-560-5133 • ric@ecosafezerowaste.com  
Ecosafe Zero Waste provides easy to implement, turnkey, Zero Waste Solutions and the industry leading products that support them. Our innovative programs are designed to maximize participation while minimizing contamination. It's as easy as 1, 2, 3.

## Ecoverse ..... Booth 610

Michael McCusker  
440-937-3225 • nvala@ecoverse.net  
The Ecoverse story began in 2001 with the introduction of the Doppstadt line, sold through DoppstadtUS, and has since grown to incorporate BACKHUS, Backers, Tiger, EnvEco, and Harvest Quest. Headquartered in Avon, Ohio, Ecoverse delivers a full line of environmental processing equipment.

## Environmental Machinery ..... Booth 422

Guy Logan  
240-676-2339 • glogan@enviromac.net  
As a member of Komptech Americas' and Bandit Industries' dealer networks, Environmental Machinery carries a wide

assortment of products to cover the essential process steps in waste treatment, biomass and recycling. Such applications include shredding, screening, separating, composting and grinding  
Jessica Lightner  
704-779-0134 • jlightner@evtusa.com  
Enviro Vision is a plastic recycling company specializing in post industrial plastics. We focus on recycling polyethylene and polypropylene.

## Granite Sky Creative Group ..... Booth 413

Mia Holshouser  
704-892-6882 • mia@gscreates.com  
Granite Sky Creative Group is a full service marketing firm with over 22 years experience. Taking the time to understand your organization, as well as your clientele, results in effective marketing solutions and long-lasting partnerships. Whether you need branding and logo development, print collateral or a website, we can give a clear, concise voice to the information you want to distribute. Granite Sky is 100% woman owned, HUB Certified and Certified WBE. Visit [www.gscreates.com](http://www.gscreates.com).

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#### Collegiate Recyclers Council ..... Booth 620

Amy Freble  
919-962-5169 • apreble@fac.unc.edu

The Mission of the Collegiate Recyclers Coalition (CRC) is to promote sustainable resource use through waste reduction, reuse, and recycling on college campuses and to facilitate networking, exchange of information and strategic action. The CRC was founded in 1990 by a group of concerned collegiate recycling coordinators with the goal of sharing information to develop more comprehensive and supportive RRR programs across North and South Carolina. Since that time, the CRC has hosted seven conferences, increased its membership by 200% and successfully grown to become a well-respected organization in the recycling community.

#### Covanta ..... Booth 520

Jessica Dowell  
704-502-9761 • jdowell@covanta.com  
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#### Demand Products, Inc ..... Booth 615

Chris Johnson  
1-800-325-7540 • [chris@demandproducts.com](mailto:chris@demandproducts.com)  
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#### Eastern Carolina Vocational Center, Inc. (ECVC) .. Booth 214

Jeremy Dawson  
252-317-3123 • [jdawson@ecvcinc.com](mailto:jdawson@ecvcinc.com)  
ECVC is a nonprofit Community Rehabilitation Program (CRP) offering commingled and electronics recycling, as well as baling services. Located in Greenville, NC.

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 864-579-4800 • cleanlites@cleanlites.com

**Cavent Wire Co** • • • • • **Booth 215**  
 Chris Kearns  
 336-969-2601 • catkins@caventwire.com  
 Cavert Wire is the first name in baling wire since 1910. Our commitment to the highest manufacturing standards, together with our competitive pricing, have made us the largest producer of black annealed baling wire in the United States. Cavert Wire manufactures a variety of baling wire to meet your needs including single loop bale ties, auto-ty box wire and auto-ty stem wire. Cavert Wire stands alone as America's premier baling wire manufacturer in the recycling industry.

**Catwba Baler & Equipment** • • • • • **Booth 507**  
 Mark Piotrowski  
 336-285-8592 • mpiotrowski@catwabaler.com  
 Catwba Baler & Equipment (CB&E) is your go-to source for recycling equipment and service needs. We custom manufacture in the USA and our service and refurb specialist are experts in installations, repairs, maintenance, relines, de-jamming and more! Stop by our booth #507 to learn more about the equipment we offer, including the Gold Rush series Free Jam Two-Ram baler – with automatic jam-release technology.



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Keith Becker  
803-755-0075 • keith@beckercomplete.com  
Family owned and operated, Becker Complete Compactor (BCC) has built a solid relationship throughout the waste and recycling industry in South Carolina for over 20 years. Our service area extends across our beautiful state, from the coast to parts of North Carolina and Georgia. We are dedicated to the task of providing our customers with the best value in the sales and service of balers and compactors in the industry.

**Busch Systems International, Inc** ..... Booth 511  
Devan Hawbolt  
800-565-9931 • devan@buschsystems.com  
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**Carbon Cycle Energy** ..... Booth 606  
Randy Ruthford  
855-424-6427 • randy.ruthford@c2-energy.com  
We are a renewable energy development company that uses anaerobic digestion to recycle organic substrates into clean energy products. C2e is building a digester project in eastern NC that will come on stream in early 2017. We partner with commercial, industrial, institutional, governmental and agricultural waste generators to provide reliable and economic solutions for handling and recycling of organic materials. C2e also offers clean energy products that help companies achieve their sustainability goals.

**Carolina Belting Company** ..... Booth 602  
Bob Hammersla  
864-268-5996 • bhammersla@carolinabelting.com  
Carolina Belting provides all conveyor needs in the recycling industry including service and installation of belts and power transmission supplies.

**Carolina Software, Inc./WasteWORKS** ..... Booth 614  
Jon Leeds  
910-799-6767 • sales@wasteworks.com  
Carolina Software, Inc. specializes in software for the waste disposal and recycling industries. Since 1988, Carolina Software, Inc. has been installing and supporting WasteWORKS solid waste management software at locations across the U.S. and Canada.

# Exhibitors

## Accent Wire Products • • • • • Booth 100

Michael Word  
866-298-2361 • wordmichaels@hotmail.com  
Strong ties are not built overnight. At Accent Wire, we realize that "people ties" are the most important ones we build. After three decades, we have earned our position as North America's leading provider of baling wire and wire-tier technology. At all levels of our company, and with every transaction, we are dedicated to forging strong ties with our customers, vendors, and employees.

## AERC Recycling Solutions • • • • • Booth 605

John Birkholz  
804-332-3287 • jbirkholtz@aerc.com  
We are committed to a green world by helping clients in proper end-of-life management of assets containing sensitive data and components hazardous to our environment. AERC Recycling Solutions focuses on eliminating the risks surrounding data security, compliance, and environmental impact. AERC offers a full range of end-of-life asset management solutions, including secure data management, equipment de-manufacturing and complete tracking of assets. The Company recognizes the unique requirements of every client and develops customized strategies and best practice processes to meet each client's needs, including the assumption of all data security and environmental liabilities associated with privacy or legislative compliance risk.

## American Chemistry Council • • • • • Booth 616

Shari Jackson  
202-249-6616 • shari.jackson@americanchemistry.com  
The Wrap Recycling Action Program (WRAP) is a national public education and outreach initiative aimed at doubling the recycling of polyethylene (PE) bags, wraps and film to 2 billion lbs. by 2020. It was created by the American Chemistry Council's Flexible Film Recycling Group in partnership with the Sustainable Packaging Coalition and Association of Plastics Recyclers. WRAP brings together a range of stakeholders including government, businesses, industry and non-profit groups through a platform that builds local or regionally based consumer education campaigns throughout the country to increase plastic film recycling. Our common goal: to make plastic film packaging a commonly recycled material with a strong and ever-growing recycling rate.

## American Recycling • • • • • Booth 211

Teresa Davis  
864 401-5142 • tdavis@amrecycling.com  
American Recycling of Western North Carolina is ready to serve your recycling needs. We specialize in both commercial and residential programs throughout the Carolinas. We also accept baled materials for sorting including 1-2s, 1-7s and other mixed plastics from throughout the eastern U.S. Our professionals will serve you with our unique brand of quality, value and integrity. With two recovered paper processing plants in Tennessee and the Carolinas, plus sales and marketing offices in Georgia, Connecticut and Wisconsin serving domestic and international markets, American Recycling Group is the Southeast's premier source of superior recycling and recovered fiber solutions.

## Amick Equipment Co., Inc. • • • • • Booth 207

Ryan Amick  
800-922-3795 • ryanamick@gmail.com  
Amick Equipment provides recycling, refuse & organics collection equipment & trucks from industry leaders like New Way, Labrie, & Loadmaster as well as Petersen grapple loaders and Tymco sweepers. We're thankful for the opportunity we've had to provide sales, parts and service from our NC and SC locations for over 50 years.

## BACE LLC • • • • • Booth 306

Tom Fahrland  
704-249-9745 • tfahrland@bacecorp.com  
BACE LLC is a Manufacturer of Balers and Compactors for the Recycling and Waste Industry.

## BattleShip NC • • • • • Booth 716

Heather Loftin  
910-251-5797 • heather.loftin@ncdc.org  
The Battleship NORTH CAROLINA is a powerful symbol of our gratitude and pride for those who served in World War II and for all who serve in our nation's armed forces and their families. It is our state's memorial to the 11,000 North Carolinians who died during World War II. It is a powerful testimonial to those who continue to give their lives in support of our freedom today. The Generations Campaign is a Call to All Hands to actively support this treasured monument as a powerful place to share our history and introduce the call to duty - to teach, to learn, and to serve. Donations made will repair the hull, utilizing a cofferdam system and add extra benefit to tours and Eagles Island trails to



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# 2016 Annual Auction

WEDNESDAY, MARCH 23

Noon – 5:30pm

CRA will be holding its 26th Annual Conference and Trade Show from March 21-24, 2016 in Wilmington, NC. As a part of that event, we will be holding a fundraising auction to support the CRA's mission: to conserve resources by advancing recycling and waste reduction throughout the Carolinas.

The CRA accomplishes this in the following ways:

**Education:** CRA uses workshops, networking meetings, and the Annual Conference to spread the knowledge and skills of recycling professionals and experts, as well as educating members on new technologies and programs that will benefit their businesses and communities.

**Public-Private Partnerships:** CRA develops broad-based community alliances throughout the Carolinas and beyond, to achieve sustainable community improvement in recycling and waste reduction methods.

**Board and Council Action:** By engaging Board Members and Councils, we extend the reach of our educational activities and increase the impact of our efforts.

Please consider assisting the CRA in furthering their mission by donating an item or items for our auction. The CRA is a registered 501(c)(3) organization and your donation will be tax deductible. Thank you for your generosity!

**Would you like to donate an item for the auction?**

Go to [www.cra-recycle.org/2016conf/auction](http://www.cra-recycle.org/2016conf/auction).



Marathon 7230 Vertical Baler



Pinehurst Golf Package



# 2016 CRA Golf Classic

Hosted by Magnolia Greens



**MONDAY, MARCH 21**  
**12:00 – 5:00pm • Shotgun start at 1 PM**

**CRA Conference Sponsors, Exhibitors, and Attendees You Do Not Want to Miss This!**

Magnolia Greens will be hosting the Annual CRA Golf Classic. Magnolia Greens Golf Course is a fun and challenging course for golfers of all skill levels. Sponsors, Exhibitors, Members, and Guests will be challenged on the course while also enjoying a relaxing, picturesque backdrop.

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## **FOR MORE INFORMATION CONTACT:**

Dave VanDeventer  
 864-643-6030 / dvand@clmson.edu  
 or Chad Beane  
 910.947.3637 / cbeane@moorecountync.gov



# Conversation Café

WEDNESDAY, MARCH 23

1:30 – 3:00pm

Are you bummed that you had to choose between the Education and Outreach session and the MRF Panel, but darn it, you just can't be in two places at once? Do you want to ask an expert a tough question that's been eating away at you? If you answered yes to either of these questions, then this is the session for you. Conversation Café will allow you to hear some of the topics you might have missed during the sessions as well as completely new hot topics! Attendees will gather in the same room and enjoy an energetic, vibrant and highly informative networking event (with the help of plenty of coffee). There are 12 carefully chosen "hot topics", each assigned to 12 tables, with room for 10 attendees at each table. You will enjoy 15 minutes at the table of your choosing, which will be hosted by two experts on that topic. Attendees will be asked to switch to a new table after 15 minutes, for a total of 4 different table visits. Table hosts will facilitate dialogue and answer questions, letting the unique combination of guests of each table steer the conversation. It's kind of like nerdy musical chairs, but with more networking and no music.

MODERATOR: Mary McClellan, ReCommunity

## TABLE 1 Confessions of a Recycling Professional: Making the Most of Mistakes

SPEAKERS: Amy Preble, UNC Chapel Hill; Tonya Randell, Moore Recycling Associates

## TABLE 2 Public Policy Tools to Increase Recycling

SPEAKERS: Scott Mouw, NC DEACS; Will Sagar, SERDC; Sandy Skolochenko, NC DEACS

## TABLE 3 Hard-to-Recycle Items: Residential

SPEAKERS: Joe Fitzpatrick, NC DEACS; Esther Murphy, Horry County, SC

## TABLE 4 State Resources of the Carolinas

SPEAKERS: Wendy Worley, NC DEACS; Jana White, SC DHEC

## TABLE 5 Hard to Recycle Items: Commercial and Industrial

SPEAKERS: Matt Todd, RRS; Mandy Taylor, Waste Management

## TABLE 6 Emerging Technologies that May Change Recycling as We Know It

SPEAKERS: Amanda Fairley, Waste Management; Blair Pollock, Orange County, NC

## TABLE 7 Education and Outreach

SPEAKERS: Leslie Hatchell, York County, SC; Elizabeth Schussler, The Recycling Partnership

## TABLE 8 Ready-made Recycling Campaigns

SPEAKERS: Chantal Fryer, SC DOC; Heather Cashwell, NC DEACS

## TABLE 9 Business and Commercial Recycling Programs

SPEAKERS: Mike Greene, NC DEACS; Ryan Johnson, Mecklenburg County, NC

## TABLE 10 Safety Management

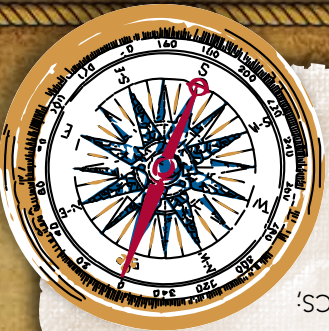
SPEAKERS: Joel Pack, Waste Management; Shirley Belton, City of Charlotte, NC

## TABLE 11 Data Management

SPEAKERS: Rob Taylor, NC DEACS; Cody Marshall, The Recycling Partnership

## TABLE 12 Organics Management

SPEAKERS: Jorge Montezuma, NC DEACS; Anna Lange, SC DOC





## A WIDE RANGE OF MACHINERY TO PROCESS A WIDE RANGE OF SCRAP



## FROM LARGE TO SMALL RECYCLING WITH WEIMA

# Breakout Sessions

## 7 Winning the Food Loss Game

To address the complex issue of excess food, we need to bring the players onto the same field. This session will explore how communities and businesses are moving the edible part of wasted food through food banks, and diverting the rest through public and private composting partnerships. The session will also highlight how municipalities and schools can provide food diversion services. Attend this session to learn how these programs were established and find potential partners to help win the food loss game.

MODERATOR: **Jorge Montezuma**, NC DEACS

SPEAKERS: **Meghan Baldwin**, Wake County, NC; **Harvey Gibson**, Charleston County Bees Ferry Compost Facility; **Amy Brooks**, Brooks Contractor; **Paulette Dunn**, Loaves & Fishes; **Dan Schnitzer**, Chapel Hill – Carrboro City Schools

## 8 Better Together: MRF and Community Programs

Magic happens when MRFs and the communities they serve unite, bringing something special to the places where they operate. Whether it's outstanding education, stronger communication tools, or a common suite of materials, we're always better when we're together. Why conduct your community's program all on your own? If you want to improve upon your partnership, or build it from the ground up, this session is full of ideas for you.

MODERATOR: **Heather Cashwell**, NC DEACS

SPEAKERS: **Cody Marshall**, The Recycling Partnership; **Suki Janssen**, Athens-Clarke County, Georgia; **Laurette Hall**, Mecklenburg County, NC; **Jane Hillier**, Sonoco Recycling

## 9 Keeping it Clean: Real Contamination Solutions

Have you been told your community's recycling is too dirty? Contaminated? You are not alone. Transitions to automated recycling, confusion about recyclability, and dwindling budgets have contributed to reduced quality at the curb, raising the amount of non-program material coming to MRFs. What are the worst contaminants for MRFs and downstream processors? What can we do to clean up our recycling? Join this session to learn about addressing one of the most pressing issues of the day.

MODERATOR: **Mary McClellan**, ReCommunity Recycling

SPEAKERS: **David Lank**, ReCommunity Recycling; **Alex Arnett**, City of Greensboro, NC; **Srijana Guilford**, Town of Cary, NC; **Jacob Seldin**, Springfield, Massachusetts

## Thursday, March 24

## 10 Putting Data to Work to Improve Program Performance

Recycling data isn't boring, it's powerful! This session will explore how program data can be gathered and used to improve public recycling systems. Learn about program metrics and benchmarks, and hear from communities that have put data to work in ways that help them evaluate and improve their recycling systems.

MODERATOR: **Sherry Yarkosky**, NC DEACS

SPEAKERS: **Bianca Howard**, City of Raleigh, NC; **Nick Crawford**, Mecklenburg County, NC; **Rob Taylor**, NC DEACS; **Tim Atkins**, City of Spartanburg, SC

## 11 Best of the Rest: Recovering Challenging Materials

Are you considering adding some non-traditional recyclable materials such as C&D, paint, batteries, fluorescent bulbs, mattresses, tires, cooking oil, or carpet padding to your collection programs? Hear the details in this fast paced session from responsible markets working with these materials and from communities that are operating successful programs.

MODERATOR: **Mike Greene**, NC DEACS

SPEAKERS: **Samantha Yager**, City of Columbia, SC; **Beverly Hester**, Catawba County, NC; **BioJoe Renwick**, Midlands Biofuels; **Ben Bryant**, New River Tire; **Shirley Mims**, Richland County, SC; **John Votaw**, Southeastern Plastics Recovery; **Joe Suleyman**, New Hanover County, NC; **Ken Webb**, ECOFLO, Inc.; **Joel Willard**, Cleanlites; **Tim Warren**, Call2Recycle; **Roy Baldwin**, Wake County, NC

## 12 Break through Plateaus: Recycling On the Go

What was a trend has become a movement. Recycling bins are popping up next to trash cans on sidewalks, festivals, parks, beaches, athletic fields and other public spaces. Attend this session to learn the steps to make public space recycling work right the first time and hear about challenges and results since implementation.

MODERATOR: **Heather Cashwell**, NC DEACS

SPEAKERS: **Christina Moskos**, Charleston County, SC; **Blair Pollock**, Orange County, NC; **John Adair**, Town of Surfside Beach, SC; **Jake Wilson**, Keep Mecklenburg Beautiful



# Breakout Sessions

## Tuesday, March 22

### ↓ Glass and the Modern Mix: Finding Solutions that Work

The past several years have changed the game for glass recycling. Market pricing, single stream carts and contamination have affected glass recycling in North and South Carolina. In this session we will examine the current chain of glass recycling and explore how glass recycling can be made more sustainable over the long term.

**MODERATOR:** Mike Greene, NC DEACS

**SPEAKERS:** Arthur J. Ligon, York County, SC; LaDonna Bolton, Republic Services; Ron Moore, American Recycling of WNC; Bill Clark, SMI

### 2 the Mix Plastics: Possibilities to Expand

Beyond the traditional collection program for bottles and plastic containers, what opportunities exist for programs to expand the mix and improve the quality of recycled plastics? Attendees will learn about the overall plastics recycling market, with a focus on emerging markets for household and niche plastics, existing opportunities for agricultural plastics, and resources to educate about bags and film.

**MODERATOR:** Nina Butler, Moore Recycling Associates

**SPEAKERS:** Bev Fermor, Waste Reduction Partners; Jordan Tony, Moore Recycling Associates; Marty Danko, Verity Recycling; Shari Jackson, American Chemistry Council

### 3 State of Practice: Single Stream Recycling, Material Processing Technology, and Anaerobic Digestion

Modern MRFs combined with an evolution in secondary material processing are changing the options for material management from both the residential and commercial sector. How are modern single stream recycling systems being developed today? How are changes in material composition and fiber grades impacting processing? How does processing technology impact system design and planning, and what does any of this have to do with Anaerobic Digestion? Come to this session to hear about the state of practice for these topics directly from an experienced panel that are on the leading edge of material processing and infrastructure development.

**MODERATOR:** Matt Todd, RRS

**SPEAKERS:** David Lank, ReCommunity Recycling; Peter Schirk, BHS-Sonthofen, Inc.; Gary Bilbro, SMART Recycling US

## Wednesday, March 23

### 5 County and Rural Recycling: Models to Model

Access to recycling can be more difficult in rural and county programs when compared to higher-density population centers. There are some excellent examples of well run, successful and growing rural and county programs across the Carolinas. Join us to learn from the leaders that make these programs hum, and leave with some best-practice strategies to take your program to the next level.

**MODERATOR:** Rob Taylor, NC DEACS

**SPEAKERS:** Anne Blindt, independent consultant; Amanda Kain, Catawba County, NC; Leslie Hatchell, York County, SC; Alysén Woodruff, York County, SC; Andy Davis, Wilson County, NC

### 6 The Evolving Ton: How Recyclables Change in the Past and Future

During this session, speakers will discuss how the recycling stream has changed over the past 15 years and how that stream will continue to change in the future. An overview of how some non-traditional recyclables flow through a MRF will be discussed, as well as efforts to educate the public on how to support their local recycling facility. Future packaging trends and how recycling industry players are impacting future packaging will also be discussed.

**MODERATOR:** Blair Pollock, Orange County, NC

**SPEAKERS:** Marty Seaman, Resource Recycling Systems; Adam Gendell, Sustainable Packaging Coalition; Amanda Fairley, Waste Management

### 4 Prepping the Public to Recycle Right

We rely heavily on the public to feed materials back into our markets, but how we clearly convey what is recyclable and how to do it can sometimes seem challenging. In this session, we will hear about how to make plastics recycling easier to communicate, education strategies for large program changes like cart rollouts, plug and play outreach resources that increase material quality and participation, and strategies to connect with harder to reach audiences like multiracially residents. You will leave with lots of new ideas and outreach resources from Recycle More SC and Recycle More NC.

**MODERATOR:** Heather Cashwell, NC DEACS

**SPEAKERS:** Tonya Randell, Moore Recycling Associates; Samantha Yager, City of Columbia, SC; Jason Hale, The Recycling Partnership; Bianca Howard, City of Raleigh, NC; Jana White, SC DHEC

# Keynote Speakers

WEDNESDAY, MARCH 23

9:00 – 10:00am

Julie Zaniewski is the global R&D packaging sustainability manager for Unilever. In her role, Julie focuses on driving programs to reduce waste through packaging design, emerging technologies, end-of-life recycling and recovery initiatives. She is actively involved in several industry groups, including the Association of Postconsumer Plastics Recyclers, the advisory panel for The Closed Loop Fund and the Executive Committee for the Sustainable Packaging Coalition.



Greer Tidwell serves as Director of Environmental Management for Bridgestone Americas Manufacturing Group (Bridgestone), where he leads environmental performance, compliance, and reputation progress for the company's North and Central American facilities. Greer has overseen initiatives that contribute to the company's leadership in environmental sustainability, including the ISO14001 certification of all of the company's tire manufacturing facilities. Tidwell actively serves on the Board of the National River Network and the Friends of Radnor Lake State Park, and has served as Chair of the Tennessee Air Pollution Control Board and as President of the Tennessee Conservation League. Tidwell has engineering degrees from Baylor University and Tennessee Technological University, and earned a Juris Doctorate from Vanderbilt University.



# General Sessions

**TUESDAY, MARCH 22**

**1:30 – 2:45pm**

## Recycling Megatrends - Where We Have Been and Where We are Going

Recycling markets are dynamic and are affected by a bewildering array of factors. Industry expert Bill Moore will present an overview of key drivers and trends in the recycling marketplace, providing a big picture view of the current situation and what's in store. Panelists representing two critical sectors, PET and ferrous metals, will comment on what they see for their materials in the near and long term.

**MODERATOR:** Scott Mouw, State Recycling Program Director, NC DEACS

**SPEAKERS:** Bill Moore, President, Moore & Associates; Eddie Ingle, Vice President Supply Chain, UNIFI; Dave Keeling, General Manager Western US, Steel Recycling Institute

**WEDNESDAY, MARCH 23**

**9:00 – 10:00am**

## Paths to Sustainability – Corporate Leadership in Zero Waste and Recycling

Global companies with a footprint in the Carolinas are demonstrating progress toward sustainability. In this joint conference session, get to know two brand-name companies committed to zero waste in their facilities, working to improve recycling, and reducing the environmental impacts of packaging and products. This session will combine the Manufacturers Zero Waste and CRA Conference audiences to enhance our mutual education and recognize our shared interest in corporate environmental leadership.

**MODERATOR:** Scott Mouw, State Recycling Program Director, NC DEACS

**SPEAKERS:** Greer Tidwell, Director of Environmental Management, Bridgestone Americas; Julie Zaniewski, Packaging Sustainability Manager, Unilever

**THURSDAY, MARCH 24**

**11:00am – 12:30pm**

## Why Can't We Just Get Along: Building Strong and Lasting MRF / Community Partnerships

The lingering down material markets are putting stress on MRFs and forcing many to re-consider their business relationships with community recycling programs. This session will feature a discussion on how MRFs and community recycling programs can establish healthy and agile contracts that allow both to achieve their goals while riding the inevitable ups and downs of the markets.

**MODERATOR:** Amanda Fairley, Sustainability Manager, Waste Management, Inc.

**SPEAKERS:** Scott Mouw, State Recycling Program Director, NC DEACS; Anne Germain, Director of Waste & Recycling Technology, National Waste & Recycling Association; Mike Pope, President & General Manager, Sonoco; Jeff Smithberger, Director of Solid Waste Management, Mecklenburg County, NC

## MISCELLANEOUS CONFERENCE INFORMATION

### Is this your first CRA Conference?

We welcome you! Please plan to join us at the First Timer's Meeting being held Tuesday morning at 11:00am in Salon D. We'll spend a little time getting to know each other and have you on your way well prepared to get the most from your conference time.

### Silent Auction: Wednesday, March 23rd 12:00-5:30pm

Bidding for silent auction items opens at noon on Wednesday and will close at 5:30pm. A live auction, including a baler donated to the CRA, will be held at 5:30. Winners will be able to pick up their item at the end of the auction/reception on Wednesday as well as from 8:00-11:00 Thursday morning.

**ALL PROCEEDS BENEFIT THE CRA!!!**  
**Donations are Tax Deductible.**

### Need CEUs?

Continuing education credits are available for your SWANA, NC SWANA or Joyce Engineering certifications. You can pick up the CEU form for signatures at the CRA Registration Desk.

### Need Exhibit Hall Passes?

Exhibit Hall passes are available for exhibitors to allow their clients access to the exhibit hall. Please visit the registration desk to purchase passes.



# Special Events

**TUESDAY, MARCH 22**

**11:00am – 12:00pm**

## First Timers Meeting

LOCATION: D

Are you a new to the CRA conference, and feeling like a fish out of water? Then be sure to attend our First Timers meeting for a conference orientation, and swim with some new friends! Join CRA veterans for this info session/meet-and-greet and become an absolute CRA-shark...or whale... You will meet other CRA newcomers like yourself, get to know the conference organizers and receive tips on how to navigate the conference.

**4:30 – 6:30pm**

## Exhibitor's Grand Opening Reception

LOCATION: Exhibit Hall

The Grand Opening of the CRA's renowned exhibit hall is an event you cannot miss! With new exhibitors in the mix, as well as those we know and love from years past, you will be in the midst of treasures galore, with all the best samples and giveaways to fill your conference tote bag. Moreover, have access to the crown jewel of this event: Networking with the best vendors in the industry. Exhibitors and Sponsors want to meet you, show you what they can do for you!

**6:30 – 7:30pm**

## Business & Industry Council "Meet & Greet"

LOCATION: Best Western Conference Center in Room D

If you represent a business or industry and are interested in learning more about the formation of the CRA's Business & Industry Recycling Council please plan to attend the "Meet & Greet" following the Exhibitor's Grand Opening Reception. This will be your chance to network with others interested in this council. If it sounds like something you want to be involved in then please also attend the organizational meeting of the new council on Wednesday from 3:00-4:00pm in Meeting Room 106 at the Wilmington Convention Center.

**WEDNESDAY, MARCH 23**

**12:00 – 5:30pm**

## Silent / Live Auction

LOCATION: Exhibit Hall

The CRA is thrilled to announce the coolest auction ever this year, with the opportunity for you to bid on a Marathon Vertical BALER and a fancy-schmanzy Golf Package at Pinehurst! The best part? You'll be supporting the CRA's mission to conserve resources by advancing recycling and waste reduction throughout the Carolinas. Your donation is tax deductible too! bonus! Auction items go on display in the Exhibit Hall and bidding begins for the Silent Auction at Noon. Keep track of your favorites and bid throughout the day. Make sure to get your bids in before the Silent Auction closes at 5:00 and we announce the winners during the exhibitor reception. The live auction of the baler and other items will begin around 5:30.

**3:30 – 4:30pm**

## CRA Business Meeting / Townhall

LOCATION: ABC

Be sure to join us for the CRA's Annual Business and Town Hall Meeting. The CRA's President, Executive Director, and Treasurer will update the membership on the latest CRA news, including the "state of CRA", financials, and new and exciting projects on the horizon. The Town Hall portion of this meeting is a perfect time to interact with the Board of Directors and to help guide the future of the CRA. You will also have the opportunity to meet the 2016 candidates campaigning for a position on the Board and for your support.

## Awards Ceremony

LOCATION: ABC

The 2016 Annual Awards will be presented during the CRA Business meeting, so be prepared to be proud of your peers. This year the awards are more competitive, with the elimination of award-categories and fewer awards all together. Come support your peers, or find out if you are the deserving program, person or company that has stood out above all the rest!

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- Trash & Recycling Compactors
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# Workshops

Workshops require advance registration.

TUESDAY, MARCH 22

8:30am – 10:30pm

## Zero Waste to Landfill 101

Business and industrial participants will learn the basics of launching and running a zero waste-to-landfill program at their facilities. In an interactive and training-paced environment, peer presenters will cover topics of getting started, green teams, dumpster dives, tracking progress and cost-effective approaches. Technical assistance presenters will share a number of valuable tools, resources, and examples to empower attendees to successfully develop their own zero waste-to-landfill initiatives.

**SPEAKERS:** Angela Barger, NC DEACS; Stacey Washington, SC DHEC; Jan Foster, Waste Reduction Partners; Sandra Carter, Daimler Trucks North America; Ryan Pennington, Daimler Trucks North America

9:00am – 12:00pm

## Education & Outreach: Train the Trainer

Ever get asked to do a school or community presentation and wonder what is the best way to talk about recycling to that particular group? This interactive workshop will offer exciting and age-appropriate lessons, activities, booth displays, and presentation methods that will help you educate and motivate audiences to recycle right. You will hear about curriculum education from both a state and county perspective, walk through activities on a variety of recycling topics from composting to how a MRF works, and engage in an idea-share where educators from across the Carolinas will discuss their favorite activities and teaching methods. Participants will leave with activity guides, materials, and lots of ideas to make your community education dynamic and fresh.

**MODERATOR:** Heather Cashwell, NC DEACS

**SPEAKERS:** Jana White, SC DHEC; Jane Hiller, Sonoco

Recycling; Mary Margaret Mendenhall, SC Educator;

Becky Dunstan, Wake County, NC; Mary McClellan,

**COST:** \$25 per person. Advance reservations required as

seating is limited to 30.

## How to Swim with the Regulators: Bringing Household Hazardous Waste Full-Circle

Managers and potential managers of Household Hazardous Waste programs are governed by several regulatory agencies and must adhere to many regulations in order to operate under a temporary or permanent permit. This workshop will explain and simplify those requirements under NC DEQ (EPA), OSHA (Safety and Emergency Response) and FIFRA (Pesticides). State

## Keep America Beautiful (KAB) Council Workshop

Whether you are a KAB Affiliate or not, this workshop will provide an array of topics that you might find useful, such as litter related issues and recycling at special events.

You will learn: What's new within Keep America Beautiful;

Health concerns resulting from ocean debris; A user

guide for "Waste Wise Events"; Promoting

programs using mascots; and Effectively

communicating with policy makers.

**MODERATOR:** Brenda Ewaudinger, Keep NC

**Beautiful**

**SPEAKERS:** Cecile Carson, Keep America

Beautiful; Lisa Rider, Keep Onslow Beautiful;

Tania Dautlick, Keep Durham Beautiful;

Pat Johnson, Keep

Gastonia Beautiful;

and an invited NC

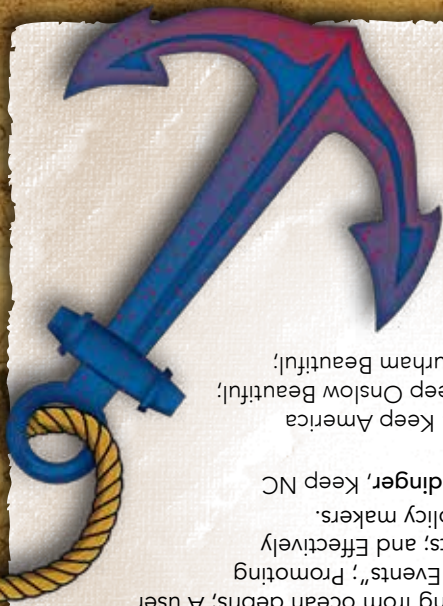
General Assembly

**COST:** \$25 per

person. Advance

reservations

requested.



Workshops and tours require advance registration.

MONDAY, MARCH 21

# Tours

12:00 – 3:30pm

## Sustainability Assessment Workshop & Tour at Battleship NC

The Sustainability Assessment Workshop will give participants the knowledge and direction to walk through facilities to determine their best methods to reduce waste, conserve water and reduce power bills. The workshop will take place on the "Battleship North Carolina". It will include both classroom instruction and an actual assessment tour of the Battleship with suggested recycling program.

MODERATOR: Lynn Bestul, New Hanover County, NC

SPEAKERS: Tom Rhodes, NC DEACS; Heather Cashwell, NC DEACS; Amanda Fairley, Waste Management

COST: \$35 per person. Advance reservations required as tour is limited to 50. Lunch will be provided.

## TOUR SAFETY GUIDELINES

- Observe the following safety guidelines for all tours:
- Please bring your nametag with you.
  - Closed-toe shoes are required for facility tours.
  - Do not wear high- or spike-heeled shoes.
  - Skirts, dresses or shorts are not recommended.
  - Please be prepared for inclement weather and dress accordingly.

9:00 – 3:30pm  
Departs from hotels at 8:00AM

## Collegiate Recycling Coalition Workshop & Tour

The CRC Workshop is an opportunity to hear from fellow colleagues about exciting innovations, new ideas, challenges, and lessons learned in the world of collegiate recycling. The workshop will be followed by lunch and a tour of the UNC - Wilmington campus.

UNCW providing transportation. Meet in hotel lobbies at 8:00am.

MODERATOR: Amy Preble, UNC-Chapel Hill

SPEAKERS: Jennifer Sellers, Coastal Carolina University; Jen Jones, College of Charleston; Anna Lynott, Resource Recycling Systems; Kat Pohliman, UNC-Wilmington; Robert Riddle, NC Department of Administration; Sandy Skolochenko, NC DEACS; Lucien Rosenbloom, Natalie Williams and Ben Paulson, Warren Wilson College; Jack Terrell, Appalachian State University; Annie Lopez, NC State University

COST: \$35 per person. Advance reservations required as seating will be limited to 30. Workshop and Tour to take place at UNCW campus. Lunch will be provided.

11:30am – 4:30pm

## Construction & Demolition Workshop & Tour at New Hanover County

The C&D workshop will provide step-by-step information and waste characterization data about how to incorporate C&D recycling in your local program. State and local government, researchers, and private sector representatives will present their experiences with markets, planning, challenges and more during this half-day session on Monday afternoon. Bring all your questions, as this workshop will provide ample time for discussion.

Lunch will be provided and a tour of the under-construction New Hanover County C&D recycling facility will follow the presentations. Transportation will be provided from the meeting site to the New Hanover County site.

MODERATOR: Wendy Worley, NC DEACS

SPEAKERS: Stacey Washington, SC DHEC; Regina Guyer, UNC-Charlotte; Bill Hilling, Horry County, SC; Joe Suleyman, New Hanover County, NC; Randall Baker, Abbey Green

COST: \$35 per person. Advance reservations required as tour is limited to 50. Workshop will take place at the New Hanover County Government Center. Lunch will be provided.

## Welcome friends and "CRA family" to the 26th Annual Carolina Recycling Association Conference and Trade Show.



Another year has passed and we gather once again to network, to learn, and to work together to overcome barriers so we may continue to advance waste reduction and recycling in the Carolinas. This conference has been planned to enable us to do just that while having some fun too! The setting on the banks of the Cape Fear River should be just the right atmosphere to foster new connections and inspire new ideas and solutions.

We are introducing several exciting new things this year including our mobile conference app, equipment on display in the exhibit hall, and a live auction of a Marathon Baler with proceeds donated to the CRA. You will want to carefully review the agenda and plan to participate in as many workshops, sessions and activities as you can fit in your schedule. Make sure to load up the mobile app and create your personalized schedule, you may even share your schedule with your friends! The exhibit hall is the place to be to network and learn about the latest innovations. Make sure to take the time to look around and explore what the exhibitors have to offer.

If we have not met, please seek me out as I would like to put a face with the name. If you are new to CRA, even if not a "First Timer," please plan to join us at the 11:00AM First Timers meeting on Tuesday. If we have known each other for years, let's reconnect.

Please enjoy yourself and take advantage of every opportunity Wilmington is rolling out for us. We'd love to have your feedback, the things you love and the things we could improve, touch base with us during the conference, shoot us an email, or even send us a note in the mobile app.

Take good care.

Diane Davis, Executive Director  
Carolina Recycling Association

# A recycling partner you can count on



Sonoco Recycling is proud to be a sponsor of the Carolina Recycling Association. With 15 recycling facilities across the Carolinas, including six state-of-the-art material recovery facilities, we can process a variety of materials from both commercial and municipal sources. Visit our booth to learn more about our comprehensive recycling solutions tailored to meet your unique sustainability needs.

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1 N. 2nd Street  
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800/377-2692  
sonocorecycling.com  
recyclinginfo@sonoco.com

# Agenda



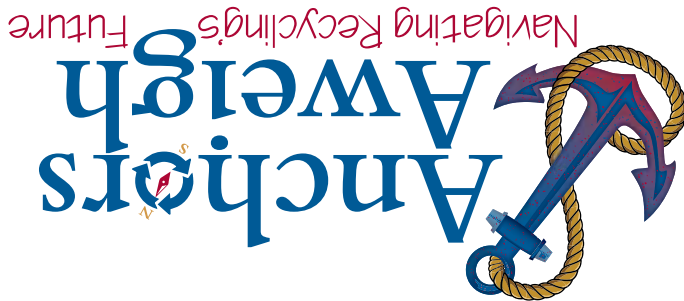
## Wednesday, March 23

8:00am – 5:00pm	Registration / Info Desk Open	
8:00 – 9:00am	Breakfast	Exhibit Hall
9:00 – 10:00am	Keynote – GENERAL SESSION 2 – Paths to Sustainability	ABC
10:00 – 10:30am	Break	Exhibit Hall
BREAKOUT SESSIONS 10:30am – 12:00pm	County and Rural Recycling: Models to Model	106
	The Evolving Ton: How Recyclables Change in the Past and Future	107
	Winning the Food Loss Game	108
	Better Together: MRF and Community Programs	D
	Silent Auction Opens	Exhibit Hall
12:00 – 1:30pm	Lunch	Exhibit Hall
1:30 – 3:00pm	Conversation Café	ABC
3:00 – 3:30pm	Break	Exhibit Hall
3:00 – 4:00pm	Business & Industry Recycling Council Plenary Meeting	106
3:30 – 4:30pm	CRA Business Meeting / Town Hall & Awards Ceremony	ABC
4:30 – 6:30pm	Reception with Exhibitors	Exhibit Hall
5:30pm	Silent Auction Closes / Live Auction	Exhibit Hall

## Thursday, March 24

8:00 – 10:00am	Registration / Info Desk Open	
8:00 – 9:00am	Breakfast	Exhibit Hall
BREAKOUT SESSIONS 9:00am – 10:30pm	Keeping it Clean: Real Contamination Solutions	106
	Putting Data to Work to Improve Program Performance	107
	Best of the Rest: Recovering Challenging Materials	108
	Break through Plateaus: Recycling On the Go	D
	Break	Exhibit Hall
10:30 – 11:00am	Break	Exhibit Hall
11:00am – 12:30pm	Closing - GENERAL SESSION 3 – Building Strong and Lasting MRF/Community Partnerships	D
12:30pm	Adjourn	
11:00am – 3:00pm	Exhibit Hall – Breakdown	Exhibit Hall

# Agenda

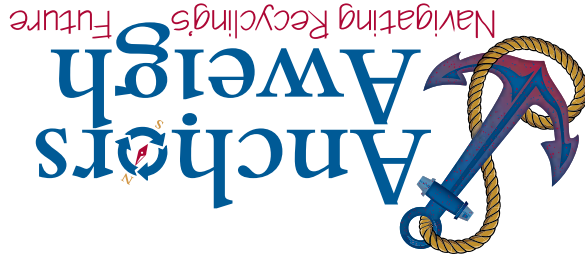


Monday, March 21			
11:00am – 5:00pm		Registration / Info Desk Open	
GOLF TOURNAMENT (Magnolia Greens)			
12:00 – 5:00pm		Shotgun start at 1:00pm	
7:00pm		Golf Awards & Dinner	
TOURS (off site)			
9:00am – 3:30pm		Collegiate Recycling Coalition Workshop & Tour	
11:30am – 4:30pm		C&D Workshop & Tour	
12:00 – 3:30pm		Sustainability Assessment Workshop & Tour	
Battleship NC		New Hanover County	

Tuesday, March 22			
8:00am – 5:00pm	Registration / Info Desk Open		
8:30 – 10:30am	E&F	Zero Waste to Landfill 101	
9:00 – 11:00pm	D	Collegiate Recycling Coalition Meeting	
9:00am – 12:00pm	106	Education & Outreach: Train the Trainer	
	107	How to Swim with the Regulators: Bringing Household Hazardous Waste Full-Circle	
	108	Keep America Beautiful (KAB) Council Workshop	
	105	SERDC Board Meeting	
10:00 – 12:00pm			
10:30 – 11:00am	Break		
11:00am – 12:00pm	Concourse	First Timer's Meeting	
11:00am – 4:00pm	Exhibit Hall	Exhibit Hall Setup & Move-In	
12:00 – 1:30pm	Concourse	Lunch (Box lunches served in concourse areas)	
1:30 – 2:45pm	ABC	Opening - GENERAL SESSION 1 – Recycling Megatrends	
2:45 – 3:00pm	Concourse	Break	
BREAKOUT SESSIONS 3:00 – 4:30pm	D	Glass and the Modern Mix: Finding Solutions that Work	
	107	Plastics: Possibilities to Expand the Mix	
	106	State of Practice: Single Stream Recycling, Material Processing Technology, and Anaerobic Digestion	
	108	Prepping the Public to Recycle Right	
	Exhibit Hall	Exhibitors Grand Opening Reception	
4:30 – 6:30pm			
6:30 – 7:30pm	Best Western Meeting Room D	Business & Industry Recycling Council "Get the Word Out" Meet & Greet	



## Welcome to the Carolina Recycling Association's 26th Annual Conference and Trade Show



On behalf of the Board of Directors, it is my pleasure to welcome you to the Carolina Recycling Association's 26th Annual Conference and Trade Show!

We are so glad you're here with us in beautiful Wilmington, NC for what promises to be our best and most memorable event yet. This year's event includes two conferences, the CRA Annual Conference and the Manufacturers Zero Waste Conference, both of which are filled with many exciting workshops, speakers, sessions, panel discussions, and countless opportunities for networking and connecting with amazing people in the field of recycling, waste reduction and zero waste.

Be sure to visit the exhibit hall where you will find representatives from every area of our profession showcasing the latest and greatest equipment, technologies, and services offered in the Carolinas and beyond. I would like to extend a personal invitation to attend the Exhibitors Grand Opening Reception in the exhibit hall to be held Tuesday from 4:30-6:30. Please show your support and take advantage of the many opportunities the exhibit hall has to offer!

The Carolina Recycling Association Annual Business Meeting will be held on Wednesday from 3:30-4:30 in the ABC Ballroom. This will be combined with our Town Hall forum and our CRA Annual Awards Ceremony. Please join us for this special event and become more involved in the work of the association while recognizing and showing your support for those that are doing such a great job in our industry.

The educational program we have for you here in Wilmington is second to none. It is produced through the hard work of many dedicated people. A special thank you to this year's program committee!

To our Sponsors and Exhibitors, without your commitment to the CRA this fantastic conference would simply not be possible. Our sincerest thanks to you and your companies.

In closing, I would like to extend a heartfelt thank you to the countless people that are the driving force behind making this year's conference a huge success. Our deepest appreciation goes to Diane Davis, Jennifer Cooper, Chad Beane, Mary McClellan, our CRA Program Chair, Terry Albrecht, our Zero Waste Program Chair, and a host of volunteers.

We have a busy schedule planned for our time in Wilmington. I hope you enjoy every minute of it and I look forward to seeing you very soon!

Warmest regards,

Amanda Kain

Board President, Carolina Recycling Association

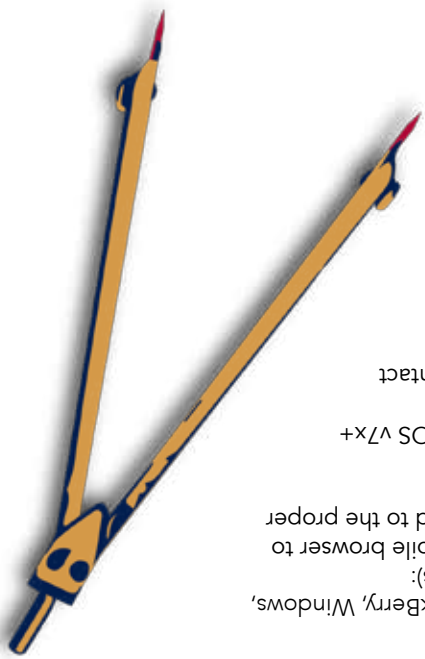
# MOBILE APP

Navigate the event like a pro with the Carolina Recycling Association mobile app, powered by core-apps.com.

## Download the CRA Annual Conference MOBILE APP!

With the CRA mobile app, you can:

- Stay organized with up-to-the-minute Exhibitor, Speaker, and Event information
- Sync the app across all of your devices with Multi-Device Sync
- Receive important real-time communications from CRA
- Build a personalized schedule and bookmark exhibitors
- Take notes and download event handouts and presentations
- Rate the sessions you attend and comment on them, too
- Interactively locate sessions and exhibitors on the [host venue] maps
- Visit your bookmarked exhibitors with the Quick Route
- Find attendees and connect with your colleagues through Friends
- Share your event photos and experiences with the Photo Gallery
- Find Wilmington Local Places
- And much, much more!



**FOR ALL OTHER DEVICE TYPES** (including BlackBerry, Windows, and all other web browser-enabled devices): While on your smartphone, point your mobile browser to [m.core-apps.com/craac2016](http://m.core-apps.com/craac2016) to be directed to the proper download version for your device.

**PLATFORM COMPATIBILITY:** Android v4x+ and iOS v7x+

Should you have any questions, please contact [support@core-apps.com](mailto:support@core-apps.com).





Carolina  
Recycling Association's  
26<sup>th</sup> Annual  
Conference  
&  
Trade Show  
March 21 - 24, 2016  
Wilmington Convention Center  
Wilmington, NC

