



See where the
industry is heading.



See Richard Burke, CEO,
Advanced Disposal, in
CEO Spotlight Session!

WasteExpo 2019

Conference & Special Events: May 6-9, 2019

Exhibits: May 7-9, 2019

Las Vegas Convention Center
South Halls • Las Vegas, NV, USA

wasteexpo.com



an event by
Waste360™

**REGISTER BY
MARCH 20 TO SAVE!
VISIT WASTEEXPO.COM**



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Exhibits: May 7-9, 2019

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wasteexpo.com

WasteExpo 2019: The Future is Here.

Innovation. Cutting-edge insights. Forward-looking technology. Over the past 50 years, WasteExpo has helped usher in more significant innovations in the waste, recycling and organics industry than any other event. And the future looks even more promising...

So, what can you expect at WasteExpo 2019?

- **600+ exhibitors** ready to help with your latest challenges
- **Innovation & technology** at the forefront in educational sessions and in the Exhibit Hall
- **The popular (and FREE!) Spotlight Sessions will be back**, keeping you ahead of the trends
- **Ride & Drive interactive outdoor demos** let you test-drive new refuse trucks designed with superior maneuverability, visibility, and ergonomics
Sponsored by Mack Trucks
- **The Food Recovery Forum is back**—learn how to profit from this booming sector!
- **NEW: Business Growth Forum**—a half-day seminar designed for small and midsized companies looking for financial strategies that go beyond day-to-day operations
- **NEW: NOTHING WASTED! Pioneers & Visionaries**—hear from today's brightest innovators and thinkers in an open forum that incites change
- **Waste360/Stifel Investor Summit** – Gain insights into today's waste-and-recycling market and the forces driving it
- **NEW: The Spanish Super Session**—a new (and free) education course designed for our Spanish speaking attendees
- **New: Join the Thursday workshops** on safety, zero waste, recycling and food waste
- **14,000+ participants** (hopefully including YOU!)

The WasteExpo Conference Program, in partnership with the National Waste & Recycling Association (NWRA) and Dr. Stu Buckner, will sharpen your skills and help you run your business or department smarter.

We look forward to seeing you in Las Vegas.

The WasteExpo Team

Market Leader Sponsors:



In Collaboration with:



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CO-LOCATED CONFERENCES

Waste (360)[™] Investor Summit

Monday May 6, 2019
Las Vegas Convention Center, South Halls
7:30AM – 5:00PM

Sponsored by



WasteExpo and Stifel Financial Corp. are partners in presenting an investor conference giving you insight into the factors influencing behavior of the operating companies. Join executives and investors for a day of learning and analysis moderated by Michael E. Hoffman, Managing Director – Group Head, Diversified Industrials Research, Stifel. It's a dedicated gathering of corporate executives and institutional investors in the waste and recycling industry. You'll hear from leaders of some of the sector's most influential companies. Come hear the decision makers share what they see as the industry trends and their impact on capital spending and strategic moves in the marketplace. **Please note that additional registration is required for this conference. To register and see the full agenda visit [WasteExpo.com](#)**

Waste (360)[™] Healthcare Waste Conference

Wednesday–Thursday May 8-9, 2019
Las Vegas Convention Center, South Halls

Sponsored by
 Stericycle

Join the healthcare waste industry's most powerful leaders to learn, network and do business at the Waste360 Healthcare Waste Conference! The conference focuses on the regulatory, legislative and technical issues that affect the healthcare waste industry. You'll walk away with the ideas and solutions that you'll need to do your job better and safer in 2019. **Please note that additional registration is required for this conference. To register and see the full agenda visit [healthcarewasteconf.com](#).**

Waste (360)[™] Business Growth Forum

Wednesday, May 8, 2019
Renaissance Hotel
(Next to Convention Center, South Halls)
9:00am - 1:00pm

Host Sponsor Comerica Bank
Supporting Sponsor PEGEX

Structure and strategy are two of the most important factors in running a successful business. The Waste360 Business Growth Forum is designed for small and mid-sized environmental services companies looking for business and financial strategies that go beyond day-to-day operations. You'll gain access to insights, tools, and resources for developing business and financial strategies that provide your company with smarter solutions for growing your business. **Please note that additional registration is required for this conference. To register and see the full agenda visit [wasteexpo.com](#).**

SPECIAL EVENTS

WasteExpo's Special Events are unique and part of what makes this THE annual reunion for the industry. Enjoy this chance to connect with your peers from around the corner and the other side of the world.

Monday, May 6, 2019



WasteExpo Welcome Reception 6:30 PM – 9:00 PM

WasteExpo Welcome Reception Hosted by New Way

Jewel Night Club Las Vegas at ARIA Resort & Casino

Attend the best party in town and the industry's biggest reunion! The WasteExpo Welcome Reception will be at Jewel Nightclub in the Aria Resort & Casino.

Tuesday, May 7, 2019



NWRA Awards Breakfast 2019 7:00AM – 9:00AM Las Vegas Convention Center South Halls

Join NWRA for our premier WasteExpo event, the NWRA Awards Breakfast. We are proud to honor the leaders and unsung heroes of the waste and recycling industry. The awards presented include Driver of the Year, Operator of the Year, Hall of Fame, Distinguished Service, Member of the Year, and the Chapter Leadership Award.



EREF Charitable Auction & Silent Auction

The Environmental Research & Education Foundation and its charitable auction will be celebrating 25 years at WasteExpo 2019! The auction supports EREF's funding of scholarships and grants for solid waste research, as well as EREF's educational initiatives. Since 1994, the auction has raised more than \$18 million.

Silent Auction

Tuesday, May 7, 10:00AM until Wednesday, May 8, 3:30PM

EREF Reception Wednesday, May 8, 3:00PM

Live Auction Wednesday, May 8, 3:30PM

Mack Trucks' Ride & Drive

Tuesday, May 7 – Wednesday, May 8, 2019

10:30AM – 3:00PM

Silver Lot 3, outside across from the South Hall of the convention center. Test drive one of our refuse trucks and see how its design was inspired by our customer's desire for the best truck for their operations, with superior maneuverability, visibility and ergonomics. A current CDL is required to drive the vehicle. Stop by the Mack booth to register and take a test drive!



Public Sector Networking Event

Hosted by Sourcewell



5:00PM-6:30PM

Meet and network with fellow public sector professionals at WasteExpo's first Public Sector Networking Event hosted by Sourcewell with support from Cascade Cart Solutions, National Cooperative Leasing, and SSI SCHAFFER.



NWRA's Carts on Parade will be back! Watch for details.

Hosted by the NWRA Women's Council



MEET OUR EXHIBITORS AND FIND THE SOLUTIONS YOU NEED

The WasteExpo Exhibit Hall gives you the opportunity to interact with 600+ exhibitors showcasing the latest equipment and technology the industry has to offer. This is your once-a-year chance to get hands-on experience and personal consultations with the best in the business.

All companies in bold are members of the National Waste & Recycling Association. **Companies in blue are Market Leaders.**

2019 Exhibitor List (as of December 31, 2018)

3rd Eye

A.R.M. Solutions

AquaTools, Inc.

Accent Wire - Tie

Action Equipment Co. Inc.

Advance Tire Inc.

Advanced Disposal

AEI

Aero Industries

Air and Water Systems

Air Filter Blaster

Air-Flo Mfg., Co., Inc.

AIR-WEIGH

Aljon by C&C Manufacturing LLC

Alkon Corporation

ALLGAIER PROCESS TECHNOLOGY, INC.

Alliance Tire Group

Always on Top Marketing

AMCS Group

Amerex Corporation

American Baler Company

Ampliroll Hooklifts - Marrel Corp.

Amrep, Inc.

AMP Robotics

Anaergia

APSCO

AQUA BLAST CORP

ARE Industries

ARI-HETRA

Arkon Mounts

Ascentium Capital

AT&T Inc

ATR Transmission Remanufacturing, Inc.

AUTOCAR Truck

Axalta Coating Systems

Bakers Waste Equipment (BWE)

Bandit Industries, Inc.

Bateman Manufacturing

BBL Energy Inc.

BENLEE - Premier Truck Sales & Rentals, Inc.

Benzaco Scientific, Inc.

Big Truck Rental

Binder + Co AG

BJJ/LOK-A-BIN

Blackhawk Technology Company

BMO Transportation Finance

BOMAG

Bondtech Corporation

BOTTARO - Baling Wire

Box Tracker

Bramidan Balers US, Inc.

BRANSYS

Bridgeport Manufacturing, Inc.

Bridgestone

Brigade Electronics Inc

Britespan Building Systems Inc.

Brown Bear Corporation

Brown Industrial, Inc.

BTS Biogas srl/GmbH

Bucks Fabricating

Buffalo Turbine

Builtrite Manufacturing, Inc.

Bulk Handling Systems (BHS)

Busch Systems Intl. Inc.

BYD

C2Logix, Inc.

Cardinal Scale

Cardknox

Carlson Software

Cascade Cart Solutions

Cascadia Consulting Group

CASE Construction

Castrol

Caterpillar

CBI and Ecotec: Terex Brands

Chevron Lubricants

Chicago Pneumatic

Civil & Environmental Consultants, Inc.

Clean Energy

Clean Fleets Advocates

Cleanfix North America Ltd.

Cleaning Systems, Inc.

CleanWay Environmental Partners, Inc.

ClearSpan Fabric Structures

CMI Roadbuilding, Inc.

Coastal Wire Company

Columbia Industries, Inc.

Columbus McKinnon Corp

Commercial Credit Group Inc.

Commercial Vehicle Group

Con-Tech Manufacturing

Consolidated Fabricators

Container Components

Continental Tire

Core Computing Solutions, Inc.

Cortex

CP Group

CPM Di Piu Systems

Crane Carrier Company

Creative Information Systems

CRO Software Solutions

Cross Wrap Ltd.

CTP Solutions

Cummins Inc.

Cummins Westport, Inc.

Curbtender, Inc.

Custom Hoists, Inc.

Custom Truck One Source

D-Lux Screen Printing powering

WasteStickers.com

DaDee Manufacturing

DAG Worldwide LL

DataProse Billing Solutions

Defeo Manufacturing

DEL Hydraulics

DENNIS EAGLE

Diamond Z / Rule Steel

Diamondback Products, Inc.

Diesel Force

Dings Co. Magnetic Group

Discount Waste, Inc.

DJ Products, Inc.

Donovan

Dossier Systems

DuBois Chemicals

Dur-a-Guard

E-Z Pack Manufacturing

Eagle Eye Waste Graphics

East Manufacturing Corp.

Eastern Pneumatics & Hydraulics, Inc.

EasyRoute

Eco Wash Industries

ECODAS

Economic Development Partnership of

North Carolina

EcoSafe Zero Waste

ECOVERSE

Edge Innovate

Electric Guard Dog

ELLIS WATER SOLUTIONS

Emery Winslow Scale Company

End of Waste Foundation

Endura Paint

Engineered Compost Systems (ECS)

Enterprise Baler CO

Environmental Research & Education

Foundation

Environmental Solutions Group -

Heil Environmental

Enviro motive Inc.

Environmental Compliance Equipment

Environmental Specialties Int., Inc. (ESI)

Eriez Magnetics

ET Environmental Corporation

Euclid Chemical Company

Evergreen National Indemnity Co.

Ex-Cell Kaiser LLC

Excel Manufacturing

Expello Air Products

Fairbanks Scales

Fire Rover

Flaming River Industries, Inc.

FleetGuide

FleetMind Solutions, Inc.

Fogco

Ford Commercial Vehicles

Freightliner Trucks

Fuel Ox

Fujimi Luxury Massage Chairs

Galfab

General Truck Parts

Genesis Attachments

Gient Heating Industry Co., Ltd.

Glacier Zone

Global Routing Solutions

Global Sensor Systems Inc.

Golder

Goodyear

Green Machine

Green Mountain Technologies, Inc.

Green Stuff Absorbent

Grinder Wear Parts

(formerly The Trading Company) & Apollo

Equipment

GrinderCrusherScreen.com

Greeneveld Lubrication Solutions

Grote Industries

Guard-All Building Solutions

Gusella Bakker

Halco Industries Inc.

Haltec Corporation

Hambicki Trucks & Container Sales Inc.

Harris

Hauler Magazine, The

Havis, Inc.

HAWE Hydraulic

Heavy Motions Inc.

Hedstrom Environmental

Hein, Lehmann US, LLC

Hendrickson

Himes Service Company

Hino Trucks

HODGE PRODUCTS, INC.

Hose Company, The

Housby

HSM of America

HUB Industrial Supply

Hustler Conveyor Co./American Pulverizer

Hydro-Chem Systems

Hydrolec Inc.

Image360 York, PA

IMI Precision Engineering

Impact Plastics Corporation

Infinity Massage Chairs

InSight Mobile Data

Insurance Office of America

Intec Video Systems, Inc.

InterClean Equipment, Inc.

International Baler Corporation

International Truck

IPL Products Ltd.

Iron Container Company

ITA Dynamics

IXS Coatings

J & J Truck Bodies & Trailers

J&R Business Enterprises Inc.

J.R. Miller & Associates, Inc.

Jordan Reduction Solutions

Kadant PAAL

Kann Manufacturing Corporation

Karl Schmidt Manufacturing Inc.

WasteExpo Exhibit Hall Hours:

(2nd level opens at 9:30am)

Tuesday May 7 10:00AM – 5:00PM**Wednesday** May 8 10:00AM – 5:00PM**Thursday** May 9 10:00AM – 1:00PM**KEITH Manufacturing**

Ken's Truck Repair, Inc.

Kimmel & Associates

Klinger Print

KNL Holdings, LLC/Peerless Trailers

Komatsu America Corp**Komptech Americas**

LaBounty

Labrie Enviroquip Group**Leadpoint Business Services**

Legacy Building Solutions

Liebherr Construction Equipment Co.

Likusta Umwelttechnik GmbH

Lindner Recyclingtech America LLC

Liquitube Tire Sealant

Loadmaster

Lock America, Inc.

LSC Environmental Products, LLC

Ludlum Measurements, Inc.

Luff Industries

Lytix

M.S. Foster & Associates, Inc.

MAC Trailer Mfg., Inc.**Machinex Technologies, Inc.****Mack Trucks**

Magellan GPS

Magna Tyres Group

Mailhot Industries

Majestic Glove**Mansfield Energy**

Manywain Enterprise Co., Ltd.

Maren Balers and Shredders

Mark-Costello Co., The

Martens Johnson Insurance Agency Inc.**Mayfran International**

McEntee Media Corporation

McNeilus Truck & Manufacturing

Metalcrete Industries

Metso Minerals Industries, Inc

Michelin North America, Inc.

Midwest Elastomers, Inc

Moba Corporation**Moby Dick Wheelwashing Systems**

MoistTech Corp.

Morbark, Inc.

Morse Watchmans Inc

MSW Management Magazine

Multi-Seal Corporation

Muncie Power Products**National Interstate Insurance Company**

National Organics Recycling Systems

National Waste & Recycling Association**Navusoft, LLC****Navusoft, LLC****Neptune Automated Wheel Wash Systems****New Way**

Norbar Torque Tools

Nord-Lock Group

NS Corporation

O'Brian Tarping Systems

Oakmont Capital Services

OEM Controls, Inc.

OMI Industries

OnePlus Systems

Onspot Automatic Tire Chains

ORBIS Corporation

(formerly Norseman Environmental)

Orbit Metal

Organix Solutions

Orwak North America

Otto Environmental Systems**North America, Inc.**

OWS

Ozinga Energy

PAK-MOR Ltd.**Palfinger North America****Par-Kan Company****Paradigm Software LLC****Parker Hannifin Corporation**

Partsmaster

PEAK Commercial Industrial

Pegex

Pellenc ST

Pemberton, Inc.**Peninsula Plastics Ltd****People's United Equipment Finance Corp.****PeopleReady****Perkins Manufacturing Co.****Perma-Coat****Permco, Inc.****Peterbilt Motors Company****Petersen Industries, Inc.****Peterson Manufacturing**

Petro-Canada Lubricants, Inc

Pinnacle Engineering Inc

Pitbull Trailers**Plexus Recycling Technologies**

Plymouth Industries

Power Knot LLC

Power Pusher, A Division of Nu-Star Inc.

PRECOC Electronics, Inc.

Primary Machinery

PROMECCO SpA

PRO-VISION Video Systems

Qijin Magnet Co., Ltd

Quantum Fuel Systems, LLC

Qwik-Tip Inc.

Rapid Recovery

RDK Assets, LLC**Rehrig Pacific Company****Reliable Transmission Service****Republic Services**

Resource Recycling Magazine

Resource West, Inc.

Revolution Systems

Rice Lake Weighing Systems**Ritz Safety****Roeda Signs & ScreenTech Imaging****Roll Rite LLC****ROLLOFFS, USA Inc..****Rotac Tipper by Micromatic LLC**

Rotational Molding Inc.

Roto-Mix

Rotobec

Rotochopper**RouteOptix, Inc.**

RouteSmart Technologies, Inc.

Routeware, Inc.**RRL Insurance Agency**

Rubicon Global

Ruble Truck Sales Inc.

RUNI Recycling Machinery

Rush Refuse Systems**Rusmar Incorporated**

Samsara

Sanitech Systems

Scan-Link

SCARAB

Schaefer Systems International, Inc**Schroeder Industries LLC**

Scott Equipment Company

Scranton Manufacturing/New Way**SCS Engineers/Field Services**

Sears Seating

Sensa Networks

SETCO Solid Tire & Rim

SGM Magnetics Corp.

Sheboygan Paint Company

Shell Lubricants

Sherbrooke OEM LTD

Shred-Tech

Sierra Energy

Sierra International Machinery**Slimline Manufacturing (2016) LTD.**

Smith Manus

Snyder Industries, Inc**Soft-Pak**

Sourcewell

Southwestern Equipment Company

Spaleck USA LLC

Sparta Manufacturing

Specim

SSI Shredding Systems, Inc.

STADLER America, LLC**Starlight****Steinert US****Stellar Industries, Inc.**

Sterling National Bank

Suez Water Technologies and Solutions

Sustainable Generation/GORE**SwapLoader U.S.A., Ltd**

Switch-N-Go

TA Equipment Finance, Inc

TANA- North America**tarpARMOR**

Tarpomatic, Inc.

TCF Equipment Finance

TecNiq Inc

Terra Compactor Wheel

Terramac LLC

The Trailer Company, Inc

Thunder Creek

Tiger Payment Solutions

Titanium Payments

Titus MRF Services

TOMRA Sorting Inc

TOP-USA Corporation

TorcUP, Inc.

TORXX Kinetic Pulverizer Ltd.

TransAxle

Transportation Insurance Services, LLC

TrashTrucksOnline

Trelleborg Wheel Systems Americas, Inc.

Trillium CNG

Trimble

Triple Crown Products, Inc.

Triumph Commercial Finance

TruckPro, Inc

Trux Route Management Systems**Ty Cushion Tire**

U.S. Jaclean

Underground Refuse Systems

Unlimited Recycling Resources, LLC

UNTHA shredding technology Inc.**VAN DYK Recycling Solutions**

Vaughan Company

Vecoplan, LLC**Vermeer Corporation**

VFG Leasing and Finance

Vincent Corporation

Vogelsang Fastener Solutions

Vogelsang USA

Volvo Construction Equipment

Vulcan On-Board Scales

WAM Software, Inc.

Warren & Baerg Manufacturing

Waste Advantage Magazine

Waste Applications, Inc.**Waste Connections**

Waste Funding

Waste Harmonics**Waste Industries****Waste Management, Inc.****Wastebuilt**

WasteMag Magazine

Wastequip

WasteWORKS/Carolina Software

Webb Severe Duty

WEIMA America, Inc.**Wells Fargo Equipment Finance**

West Craft Manufacturing

West Salem Machinery Company

Western Baler & Conveyor Inc.

Western Equipment Finance, Inc.

Westward Industries

Wheelabrator Technologies**Wheeler Bros.****Whelen Engineering Co.****Worthington Industries**

Xiangtan Evergreen Trade Co., Ltd.

Zone Defense

SPOTLIGHT SESSIONS & NOTHING WASTED! TALKS

Explore the top industry trends in WasteExpo's FREE Spotlight Sessions.

Tuesday, May 7



CEO Fireside Chat with Richard Burke

Join this session for a one-on-one "fireside chat" with Richard Burke, CEO of Advanced Disposal and hear his perspective on where we stand as an industry now, what significant challenges we face, and where the industry might be headed in the future.

CFO Insights: A Look at the Waste & Recycling Industry

NWRA Women's Council leverages unique access to bring together the most influential chief financial officers in waste & recycling. Leveraging their collective knowledge, this panel will share perspectives on what financial challenges and opportunities may arise over the coming years. This can't-miss session provides a rare opportunity for attendees to participate in an engaging discussion with the industry's top finance leaders.



Dianna Cervantes
CFO, WCA Waste Corporation



Devina Rankin
SVP & CFO
Waste Management



Mary Anne Whitney
SVP & CFO
Waste Connections



Chuck Serianni
EVP & CFO
Republic Services



Ned Coletta
SVP & CFO
Casella Waste Systems, Inc.

Reducing Food Waste and Increasing Organics Recovery in Municipal, Regional, and Commercial Programs

- Finding Pathways to Food Waste Diversion: How to Scale Programs No Matter the Infrastructure. Madisen Gittlin, Global Green, NY
- Cost Effective Food Scrap Recovery Models for Residential and Commercial Programs and Zero Waste Events: A Rural Case Study. Elisa Seltzer, Director, Emmet County Dept of Public Works, MI
- Building a Regional Food Waste and Organics Recovery Program. Jon Koch, Director Water & Resource Recovery Facility, City of Muscatine, IA
- Compostable Bioplastics: An Important Enabler to Food Scrap Collection. Richard Lombardo, Natur-Tec®



Navigating Technology in Waste & Recycling

In today's climate, agility is critical for companies to stay competitive - you must be able to use technology to make real-time decisions and operate your business efficiently. Software, hardware, smart sensors, mobile devices - how do you navigate the technology that is best for your operation? Join this session to learn the steps you can take to not only implement the right technology, but also how to utilize it to make your operations more efficient.

NOTHING WASTED TALKS

New at WasteExpo are the NOTHING WASTED! Talks

With Nothing Wasted! we're creating an open forum for new ideas. In each session, you'll hear from three to four thought leaders, visionaries, seekers and seers—who'll share impactful, inspirational, influential, or even provocative ideas. Don't miss this chance to think about the waste industry in brand new ways!

Tuesday, May 7 10:30AM – 12:00PM

Industry Visionaries Discuss Solutions to Food Waste

Wednesday, May 8 1:45PM – 2:45PM

Pioneers & Visionaries Michael Corbett, Director of Applied Science, Divert Inc., MA.

INDUSTRY SUPPORT

POWERED BY:



waste360.com

IN COLLABORATION WITH:



wasterecycling.org Booth #4137

MARKET LEADER SPONSORS:



AMCSgroup.com Booths #1454, 1766, 1768



bigtruckrental.com Booth #816



byd.com Booth #3885



Castrol.com/HD Booth #1067

ADDITIONAL SPONSORS:



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Business Growth Forum Host



Business Growth Forum Supporting Sponsor



Public Sector Networking Event Host



CASCADe
cart solutions



Public Sector Networking Event Supporting Sponsors



Badge Sponsor



Technology Sponsor



40 Under 40 Awards Event Host



Attendee Tote Bags



Ride & Drive Outdoor Demonstration Area



Zero Waste/ Resource Recovery Conference Topic Sponsor

ALLIED PUBLICATIONS & PARTNERS:

American City & County	Paper Stock Report
American Recycler	Recycling Product News
Biomass Magazine	Resource Recycling
CDRA	Recycling Today
Composting News	Solid Waste & Recycling Magazine
Construction Business Owner	SWANA
Construction & Demolition Recycling Magazine	The Hauler
CWRE	The Municipal Magazine
Fleet Owner	Trash Trucks Online
Hydraulics & Pneumatics	US Composting Council
MSW Management	Waste Advantage
Northeast Resources Recovery Association	Waste Today

REGISTRATION IS EASY!

Visit WasteExpo.com to register today!

Register **by March 20, 2019** to save.

The Premium Package is your best value and includes:

- **1 ticket** to the WasteExpo Welcome Reception
- **3 days** of the Food Recovery Forum
- **3 days** of the WasteExpo Exhibit Hall
- **3 days** of WasteExpo Conference Sessions
- **2 days** of the Waste360 Healthcare Waste Tabletop Exhibits
- **Unlimited access** to On-Demand Education Sessions for WasteExpo 2019

Exhibit Hall Only Option:

Don't have enough time to attend the conference sessions, but want to check out the innovative equipment and services that the solid waste, recycling and organics industry has to offer?

- **3 days** of the WasteExpo Exhibit Hall
- **2 days** of the Waste360 Healthcare Waste Tabletop Exhibits

Save BIG by registering for the Premium Package or the Exhibit Hall Only Option by March 20, 2019!

Note: Further discounts are available to members of the NWRA, SWANA and APWA. Additional registration is required for NWRA's Awards Breakfast, the Waste360/Stifel Investor Summit, the Waste360 Healthcare Waste Conference, the Waste360 Business Growth Forum, and Thursday's workshops.

TRAVEL INFORMATION

Secure discounts by booking your Las Vegas hotel stay with onPeak, WasteExpo's **ONLY** official hotel provider. Just visit the Venue & Hotel page on WasteExpo.com to make your reservation. **Deadline is April 16, 2019.**

For more information contact the WasteExpo Housing Desk at 1-800-727-2467 or 312-527-7300, or by email at wasteexpo@onpeak.com



WASTE EXPO 2019 Schedule At-A-Glance

By partnering with the National Waste & Recycling Association (NWRA) and Dr. Stu Buckner, WasteExpo is able to deliver a conference program that is more interactive and essential than ever before — providing you with everything you need to do your job smarter, safer and more efficiently! (As of 12/31/18 – Session topics, speakers & moderators are subject to change.)

In collaboration with:



Business Insights & Policy



Collection & Transfers



Organics Recycling, Composting, Biogas

Monday, May 6

9:00-10:15AM	A Fresh Take: How Rising Leaders See the Waste Industry's Future	Change is Coming: Insights into C&D Trends	
9:00-10:30AM			Keynote Session: Solutions to Food Waste Prevention, Reduction, & Recovery
10:30AM -11:45PM	Workplace Threats & Violence: Hostile Customers, Active Shooters and More		
10:45AM-12:15PM			Composting Infrastructure Development, Public-Private Partnerships, Air Permitting Requirements, Technology Innovations
12:15-1:30PM	Post China Market Development		
1:00-2:30PM			Anaerobic Digestion and Pre-Treatment Technologies for Processing MSW and Source-Separated Organics, Producing Renewable Energy & High-Quality Compost; Safety
1:45-3:00PM	Welcome Onboard! Now What?	HAULER ROUNDTABLE: How to Achieve & Maintain Operational Efficiency	
2:45-4:15PM			Successful Case Studies of Anaerobic Digestion, Biogas and Biofuel Production
3:15-4:30PM	Show Me the Money: Finance Tips for Growing Your Business	What's New in Waste-to-Energy	
4:30-5:45PM			Anaerobic Digestion and Emerging Technologies for Processing Organic Waste and Producing Renewable Energy Products



Business Insights & Policy



Collection & Transfers



Organics Recycling, Composting, Biogas

Tuesday, May 7

9:00-10:15AM			Composting: Increasing Processing Capacity, Improving Process Management, Minimizing Contamination
10:15 -11:00AM	SPOTLIGHT SESSION: CEO Interview – Sitting Down with Richard Burke of Advanced Disposal		
10:30AM -12:00PM			Food Waste to Energy via Anaerobic Digestion and other Technologies
11:10AM -12:20PM	SPOTLIGHT SESSION: CFO Insights – A Look at the Waste & Recycling Industry, Presented by NWRA Women's Council		
12:30-1:45PM	Engaging Your Stakeholders: Affecting Positive Change	RFID, PAYT – Are These the Future of Waste?	
1:00-2:30PM			Anaerobic Digestion and Composting: Technology Improvements and Optimizing System Design; Organics Collection Strategies and Costs
1:00 -2:30PM	SPOTLIGHT SESSION: Reducing Food Waste and Increasing Organics Recovery in Municipal, Regional, and Commercial Programs		
2:00-3:15PM	Bidding Wars: Responding to Formal Municipal Bids	The Million Dollar Mistake: Avoiding the 5 Most Common OSHA Citations	
3:15-4:15PM			Best Management Practices and Case Studies: Anaerobic Digestion with Food Waste and Co-Digestion
3:30-4:30PM	SPOTLIGHT SESSION: Technology – Navigating Technology in Waste & Recycling		
4:30-5:45PM			Meeting Capacity Needs for Processing Food Waste and Other Organics Using Existing Infrastructure at Waste Water Treatment Plants



Business Insights & Policy



Collection & Transfers



Organics Recycling, Composting, Biogas

Wednesday, May 8

9:00-10:15AM	Zero Waste: Fantasy or Reality?	People's Choice Session	Innovative Waste Conversion Technologies for Processing Bio-Waste and Creating Renewable Fuels and Energy - Part 1
10:30AM -11:45PM	The Future of Franchising	Closing the Loop: Where Do We Stand on Circular Economy	
10:30AM -12:00PM			Maximizing Organics Waste Reduction and Diversion
12:15-1:30PM	The Latest on Sustainability Initiatives	New Contract, New Me: How to Prepare for Negotiations in Today's Climate	
1:00-2:30PM			Innovative Waste Conversion Technologies for Processing Bio-Waste and Creating Renewable Fuels and Energy - Part 2
1:45-2:45PM	NOTHING WASTED! Pioneers & Visionaries		
2:45-4:00PM			From Rotten Apples to Juicy Returns: Investors Discuss Financing Organics Recovery and other Waste Projects
4:15-5:45PM			Technologies and Equipment for Managing Odors at Organics Recovery Facilities; Pre-Treatment Equipment for AD

Thursday, May 9

Waste360 Healthcare Waste Conference: 8:00am - 3:30pm (Separate registration required)

WasteExpo Workshops

8:30-12:30PM	9:00AM - 12:00PM How to Start a Food Waste Diversion Program for Waste Generators	NWRA Safety Symposium
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Co-located Conferences:

- Waste360/Stifel Investor Summit** May 6 7:30AM – 5:00PM
- Waste360 Business Growth Forum** May 8 9:00AM – 1:00PM
- Waste360 Healthcare Waste** May 8-9 8:00AM – 6:00PM

Check out WasteExpo's Special Events at WasteExpo.com

WasteExpo Exhibit Hall Hours:

- Tuesday** May 7 10:00AM – 5:00PM
- Wednesday** May 8 10:00AM – 5:00PM
- Thursday** May 9 10:00AM – 1:00PM

(2nd level opens at 9:30AM)

 **Food Recovery Forum**

 **Processing & Disposal**

 **Technology & Innovation**

	MUNI ROUNDTABLE: Municipal Recycling Issues	Autonomous Vehicles: Are We Any Closer?
Keynote Session: Solutions to Food Waste Prevention, Reduction, & Recovery		
	How MRF Operations Are Affected by Stricter Standards in Fiber Markets	New Data – Who Dis? What Data Collection Can Do For You
Advances in Wasted Food Policy, Practices, and Management: Highlighting What Cities, States and Companies can do Differently When It Comes to Wasted Food		
People's Choice Session		
Using Data and Technology to Drive Food Waste Reduction		
Consumer Acceptance of Upcycled Foods: Guidance for Manufacturers and Retailers	Commodities: The Good, the Bad, The Ugly	Robots & Recycling: A Dynamic Duo
	Swiping Right: Which Leachate Management Solution Best Suits Me?	Artificial Intelligence & The War on Contamination
Food Waste Reduction and Recovery at Sports Stadiums and Other Large Venues		

Waste360/Stifel Investor Summit

7:30AM – 5:00PM
(Separate registration required)

 **Food Recovery Forum**

 **Processing & Disposal**

 **Technology & Innovation**

Organic Waste Bans, Mandatory Organics Recycling Laws, and Related Strategies for Food Waste Management: An Analysis of Existing Policies, Challenges, & Opportunities		
NOTHING WASTED! Pioneers & Visionaries in Food Recovery		
	Plastic: Many Views on Single Use	Data Analytics & Measuring Success: Do They Go Hand in Hand?
Spotlight Session: Reducing Food Waste and Increasing Organics Recovery in Municipal, Regional, and Commercial Programs		
	Cannabis Waste: A New Frontier	Current Business Trends Shaping the Industry: What You Need to Know
Technology Innovations and other Solutions to the Problem of Wasted Food		
Source Separation and Collection in Commercial and Municipal Programs: BMP's, Data Collection and Evaluation, Lessons Learned, Case Studies		



 **Food Recovery Forum**

 **Processing & Disposal**

 **Technology & Innovation**

Panel Discussion: Scrap Your Fears About Food Waste: A Guide to Implementing an Organics Collection Program	9:00AM-11:45AM Spanish Super Session Mixed Paper Bootcamp: Diving In	Alternative Fuels: What Works Best for My Operation?
	Data, Drones & Case Studies: The Latest Trends in Landfill Management	Communication as a Tool to Boost Sustainability
Food Rescue and Recovery: An Analysis of Problems and Solutions, Successful Strategies, Model Programs, and BMP's for Fundraising		
	Taking Safety from the Executive Office to the Frontline	Single Stream vs. Dual Stream
Food Recovery & Organics Recycling in Schools; Zero Waste Trends in Higher Education		
Zero Waste, Above and Beyond Organics Diversion		
Small Scale & Scalable Food Waste Recycling Technologies, Equipment for Food Waste Generators		

Waste360 Business Growth Forum:

9:00AM – 1:00PM
(Separate registration required)

Waste360 Healthcare Waste Conference:

8:00AM – 5:00PM
(Separate registration required)



Introduction to Zero Waste – Certified Training

Recycling Myths, Legends and Pseudoscience: Understanding Objective Realities in Materials Recovery

WASTE EXPO CONFERENCE PROGRAM

Technology and innovation will be front-and-center in this year's conference program. And with the return of the FREE Spotlight Sessions on the industry's hottest topics, you'll find the conference program to be more interactive and innovative than ever before. Thanks to the NWRA and Dr. Stu Buckner for putting together this essential program.



Recycling



Zero Waste/Resource Recovery



Fleet



Public Sector



Landfill

Monday, May 6, 2019



BUSINESS INSIGHTS & POLICY

9:00AM – 10:15AM

A Fresh Take: How Rising Leaders See the Waste Industry's Future

As the next generation of rising leaders climb the ranks of the waste industry, it is as important as ever to understand just what makes them "tick." This panel of young professionals will share their perspective on the biggest challenges and opportunities facing the waste industry, how their professional motivations differ from other generations, and what they look for when it comes to leadership.

10:30AM – 11:45AM

Workplace Threats & Violence: Hostile Customers, Active Shooters and More

When it comes to threats and violence in the workplace, there is nothing more essential than having a plan in place, as these incidents tend to evolve quickly and can be unpredictable. Whether it's dealing with a hostile customer, domestic abuse, or even an active shooter, anyone can play a role in mitigating the impact if adequately prepared. Find out how to establish an emergency action plan and which tactics work best for several emergency situations.

12:15PM – 1:30PM

Post China Paper Market Development



When China began restricting imports, recyclers began looking high and low and everywhere to sell their materials to other markets. Market development is critical to the continued success of sustainability programs across the country. Without a market, there is no recycling! Learn from some of the mills about their future plans for developing new facilities and how this will contribute to the providing outlets for materials needing a home.

1:45PM – 3:00PM

Welcome Onboard! Now What?

It takes time and money to find key employees. And once you've found them, you need to have a strategy to integrate them into your company. An improved economy means employees will move on quickly if it's not a good fit. Voluntary turnover affects your bottom line, as well as company morale. A good onboarding process will help you retain your new hires. Attendees will walk away with specific examples of effective onboarding techniques, insight into how to identify what people need from orientation and beyond, a checklist identifying the five parts of onboarding areas, and how to facilitate a solid onboarding practice going forward.

Speakers: Charlie Kimmel, CEO - Kimmel & Associates
Valetta Wright, Director of Talent Management - WCA Waste

3:15PM – 4:30PM

Show Me the Money: Finance Tips for Your Growing Business

As business owners, there's at least one goal you

have in common – saving money. This session will share tips and tricks into how you can save money across the board, from financing a piece of equipment and how to avoid costly mistakes, to how to prepare for exit strategies and succession planning, developing the right cash flow budget and more. Find out a number of ways to have profitable growth in today's market.

Speakers: Tom Grandy, Founder – Grandy & Associates, Larry Oxenham, Author, Senior Advisor – American Society for Asset Protection, Greg Pabich, Director of Business Development & CLFP - Northland Capital Financial Services



COLLECTION & TRANSFER

9:00AM – 10:15AM

Change is Coming: Insights into C&D Trends



When people talk about recycling, they almost always mean municipal solid waste (MSW), but C&D represents as much or more material, and the fastest growing new opportunity for landfill diversion. MSW recycling has been the easier target for identification, sorting, collection, hauling and processing. C&D is much more difficult in several ways:

- The mix of materials is unpredictable and unknown.
- Containers are moved on demand, not on a predictable route.
- Logistics prevent source separation or make it extremely expensive.
- Identification and separation occur at a processing center.
- Identification, tracking, reporting of materials and volumes have traditionally not been possible.

Because of these factors, municipalities don't know how to address the opportunity. But change is coming. In the state of California, a small but growing set of municipalities have adopted regulations to drive C&D recycling, and new systems and processes are being developed to address and adapt to the challenges of C&D recycling. Find out what makes C&D recycling so much more difficult than MSW recycling, what information is required to make C&D recycling manageable and what are the coming trends for collections and reporting of diversion and waste/recycling management.

Speakers: Bill Bradley, Owner – 5280 Waste Solutions, William Turley, Executive Director, C&D Recycling Association, Dr. Timothy Townsend, Professor of Environmental Engineering, ESSIE, University of Florida

1:45 pm – 3:00 pm

HAULER ROUNDTABLE: How to Achieve & Maintain Operational Efficiency



Join this session for a discussion between haulers as they provide real-world insight into achieving and maintaining operational efficiency. Participate in a discussion about best practices, implementing and utilizing the latest technology, managing employees, current challenges, what's coming on the horizon and more.

Speaker: Aaron Bradley, Division Vice President, Mile High Division – Waste Connections

3:15PM – 4:30PM

What's New in Waste-to-Energy

Hear recent case studies on the latest waste conversion technologies that are eliminating waste disposal in landfills while generating new, viable resources and energy.

Speaker: Mike Hart, CEO - Sierra Energy



ORGANICS RECYCLING & COMPOSTING

9:00AM – 10:15AM

Keynote Session: Solutions to Food Waste Prevention, Reduction, & Recovery

Moderator: Dr. Stuart Buckner, Environmental Associates, LLC

- Actions to Unlock a Sustainable Food Future – This presentation will recap progress to-date and new trends in food loss and waste. There are new opportunities for governments and businesses to more rapidly drive change by building upon successes and lessons learned to date. Inspiring business cases and collaborative solutions will be presented that will allow businesses and governments to achieve more significant economic, social, and environmental outcomes on the journey to halve the amount of food waste generated by 2030. Ashley Zanolli, Former Senior Policy and Program Advisor, Oregon DEQ Materials Management Program
- Innovation in the Food Waste Sector – As food waste reduction is increasingly prioritized by consumers, food businesses, investors, and policymakers, innovative solutions continue to emerge rapidly. This presentation will explore new business models and innovations in the food waste sector, providing an overview of innovation trends and examples across the prevention, recovery, and recycling spectrum. Chris Cochran, Executive Director, ReFED (Rethink Food Waste Through Economics and Data)
- The Role Chefs Can Play in Reducing Food Waste – Chefs are powerful drivers of change in the culinary and sustainability space. In this session, attendees can expect to learn the various ways in which chefs can have an impact on food waste, through the lens of a new JBF food waste initiative. The initiative represents a dual approach to food waste reduction, where chefs can reach both consumers and culinary professionals. Chef Tiffany Derry, Chef Ambassador on Food Waste, The James Beard Foundation. NY

10:45 AM – 12:15 PM

Composting Infrastructure Development, Public-Private Partnerships, Air Permitting Requirements, Technology Innovations

- Moderator:** George Savage, CalRecovery
- Survey of Air Permitting Requirements for Composting Facilities Across the U.S. Patrick Sullivan, SCS Engineers. CA
 - Filling the Void: The Tools to Develop and Implement Powerful, Profitable Composting Partnerships. Mitch Kessler, President, Kessler Consulting, Inc. FL
 - Upgrading ASP Aeration Systems to Manage High Solids Digestate. Michael Bryan-Brown, President, Green Mountain Technologies.
 - Maryland Environmental Services, The Financial and Operational Benefits of Demonstration and Pilot-Scale Organics Recycling Projects. Corinne Coe, Sustainable Generation, LLC. DE

1:00 PM – 2:30 PM

Anaerobic Digestion and Pre-Treatment Technologies for Processing MSW and Source-Separated Organics, Producing Renewable Energy & High-Quality Compost; Safety Management at AD Facilities

Moderator: Gary Bilbro, EcoSafe Zero Waste

- Organics Recycling from Mixed Waste Processing with New and Existing Anaerobic Digestion Infrastructure. Yaniv Scherson, Managing Director, Western U.S. Anaeragia
- Case Study: Impact of Pretreatment and Wet/Dry Screening on Impurities in Compost Derived From MSW. Luc De Baere^{1*}, N. McDonald², Organic Waste Systems (OWS) 1 Belgium; 2 Ohio
- Source Separated Organics - Pretreatment Options for Low-Solids AD Systems. Joerg Blischke, Black & Veatch Corporation. CA
- Preventing Disaster – Process Safety Management for Anaerobic Digestion. Mr. Euan Munro, Senior Process Engineer, SLR Consulting

2:45 PM – 4:15 PM

Successful Case Studies of Anaerobic Digestion, Biogas and Biofuel Production

Moderator: Evan Edgar, Edgar and Associates

- San Luis Obispo 36,000 TPY Food & Green Waste AD Facility – Case Study & Status Update. Thomas Gratz, Hitachi Zosen Inova USA, LLC
- Surrey Biofuel Facility reached Full Service in June 2018: Results after 1 year. Ryan Lauzon, Waste Treatment Technologies Canada Ltd. BC
- California Waste Hauler Turns Yard and Food Waste into Vehicle Fuel. Bill Kosco, Eisenman Corp.
- Rialto Bioenergy Facility Case Study – Resource Recovery Optimization. Kyle Muffels, GHD

4:30 PM – 5:45 PM

Anaerobic Digestion and Emerging Technologies for Processing Organic Waste and Producing Renewable Energy Products

Moderator: George Savage, CalRecovery

- Organic Waste Diversion to Alternate Technologies. Alan Johnson, VP, quasar energy group. OH
- Organics and Beyond: Feedstock Complexities and Process Solutions. Jim Miller, CEO, J.R. Miller & Associates
- Food Waste to Energy Using 2 Phase AD: Case Study of the Hermitage Food Waste to Energy Facility. Thomas Darby, American Bioenergy



FOOD RECOVERY FORUM

9:00AM – 10:15AM

Keynote Session: Solutions to Food Waste Prevention, Reduction, & Recovery

Moderator: Dr. Stuart Buckner, Environmental Associates, LLC

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10:45 AM – 12:15 PM

Advances in Wasted Food Policy, Practices, and Management, Highlighting What Cities, States and Companies can do Differently When It Comes to Wasted Food

Moderator: Chris Cochran, Executive Director, ReFED

- Food Matters: Working with Cities to Measure and Tackle Wasted Food - NRDC's goal is to position two cities to achieve significant reductions in food waste levels, while laying a foundation for other cities to replicate successful strategies to prevent food from being wasted, rescue surplus food, and recycle food scraps. The Food Matters project will also offer a knowledge-sharing network to stimulate learning and widespread dissemination of best practices and lessons learned. Darby Hoover, Senior Resource Specialist, Natural Resources Defense Council (NRDC) Food & Agric. Program. CA
- Moving Food Up the Hierarchy Through Better Measurement and Technical Tools – The EPA's Sustainable Management of Food efforts have been focused on using data to drive change. In 2018, EPA launched the Excess Food Opportunities Map. Attendees will learn how this map can help make better use of excess food, find feedstock for their operations, and determine infrastructure gaps and potential business opportunities. Attendees will also learn about EPA's national anaerobic digestion industry snapshot, and other tools to help businesses, governments and nonprofits prevent food waste in their operations and communities. Cheryl Coleman, Director, Resource Conservation and Sustainability Division, USEPA. DC
- Lessons Learned: From Measurement to Management. Kai Robertson, Lead Advisor, Food Loss & Waste Protocol, World Resources Institute. DC. In order to effectively reduce food loss and waste, WRI is supporting efforts by governments and the private sector to follow a "target, measure, act" approach. Attendees will learn about how governments and companies around the world are quantifying their food loss and waste as well as lessons learned from steps being taken to "manage what is measured."

1:00 PM – 2:30 PM

Using Data and Technology to Drive Food Waste Reduction

A panel of experts, academics and entrepreneurs, will discuss how data and technology are being used to develop viable market platforms to address surplus food collection inefficiencies, and provide solutions to reduce food waste and ensure recovery of excess food and food scraps.

- Food Waste and the Sharing Economy. Dr. Stephen F. Hamilton, Professor of Economics, California Polytechnic State University & Timothy Richards, Morrison School of Agribusiness & Resource Mgm't, Arizona State University
- Closing the Measurement Gap: Using Measurement and Data to Prevent Food Waste. Steven Finn, VP,

Food Waste Prevention, LeanPath, Inc. OR

- Operational Key Performance Indicators (KPIs) to Improve Shrink Management and Drive Food Waste Reduction. Ricky Ashenfelter, CEO, Spoiler Alert. MA.
- Preventing Food Waste by Optimizing Efficiency and Decision Making Throughout the Food Value Chain. Brittany Buchanan, FreshCloud Global Business Lead, AgroFresh

2:45 PM – 4:15 PM

Consumer Acceptance of Upcycled Foods: Guidance for Manufacturers and Retailers

The Drexel Food Lab, Center for Food and Hospitality Management at Drexel University together with colleagues from LeBow College of Business & School of Biomedical Engr'g have been engaged in research projects regarding consumer acceptance of value-added surplus food products, which otherwise would have been wasted. Hear the origins of this research and results of three consumer studies: labeling and price sensitivity to upcycled foods, cook from frozen trials, and certifications for recovered foods. Guidelines for manufacturers and retailers will be discussed.

Speakers:

- Dr. Jonathan Deutsch, Professor, Center for Food & Hospitality Management & Dep't of Nutrition Sciences, Drexel Univ.

- Pete Pearson, Director, Food Waste, WWF

A panel discussion among upcycled food entrepreneurs follows the research presentation.

Speakers:

- Kait Bowdler, Director of Sustainability, Philabundance
- James Bello, Co-Founder, Shameless Pets
- Anna Hammond, CEO/Founder, Matriark Foods
- Mike Oraschewsky, Chief Executive Boar, TBJ
- Daniel Kurzrock, Co-Founder/Chief Grain Officer, Regrained

4:30 PM – 5:45 PM

Food Waste Reduction and Recovery at Sports Stadiums and Other Large Venues

Moderator: BethAnn Taylor, Taylor Environmental

- Greener Stadiums: A Play Book for Food Waste Recycling. Greg Lettieri, CEO, Recycle Track Systems
- Understanding Opportunity Cost and its Influence on Big Box Retailer Food Waste Diversion Program. Emanuel (Manny) Manatakis, National Sustainability Solutions, CLEANAWAY. AUS
- Food Composting on a Large Scale and From Large Scale Venues. Carla Castagnero, President, AgRecycle Inc. PA



PROCESSING & DISPOSAL

9:00 AM – 10:15 AM

MUNI ROUNDTABLE:

Municipal Recycling Issues



What are the leading challenges facing municipalities today? Hear firsthand from several municipalities as they discuss top industry issues and what they expect from the industry over the next few years.

10:30 AM – 11:45 AM

How MRF Operations Are Affected by Stricter Standards in Fiber Markets



There are several issues that MRF operators are facing today with China's waste import regulations, particularly when it comes to fiber. Hear from a panel of MRF operators who address these issues head on and discuss potential solutions. Topics include:

- Top fiber issues such as contamination and the changes in recovered fibers (less, newspaper, more OCC and OBB, etc.)

- Which solutions they've applied in terms of sorting systems & equipment upgrades
- What the results and ROI were by implementing these changes
- What actions they expect from the domestic market and the recycling industry to help address these issues

Speakers: Bob Cappadona, Vice President – Casella Recycling, Chris Hawn, CEO – Machinex Technologies, Steve Sargent, Director of Recycling, Rumpke; Tim Flanagan, General Manager, Monterey Regional Waste Management District

12:15 PM – 1:30 PM

New! People's Choice Session

This is one of two sessions designed to give you the power to decide what you want to learn about at WasteExpo! We published a survey earlier this year asking you and your industry peers to vote on the topics most interesting and relevant to you. This session will be the result of that survey, focusing on one of the following topics:

- Traffic/Exports • Consumer Education • Circular Economy • Cybersecurity • Hard to Recycle Items • Block Chain

Stay tuned to find out the topic you voted in.

1:45 PM – 3:00 PM

Commodities: The Good, the Bad, The Ugly

What can you expect in the coming year when it comes to recycling commodities? Join these industry experts to get insight on what's been happening to markets related to paper, plastics and glass, and what to expect in the coming year.

3:15 PM – 4:30 PM

Swiping Right: Which Leachate Management Solution Best Suits ME?

Join this panel of experts for an all-inclusive review of present designs, operational practices, and technologies considered as part of a sustainable long-term solution for leachate management. Panelists will present several different examples of leachate management that will help you determine how best to apply the right solution to your own operations and facilities. Learn about best practices, holistic approaches to leachate and liquids management using flow rate and leachate chemistry, membrane bioreactor (MBR) technology, leachate evaporation, and deep well injection.

Speakers:

- Darrin Dillah, Vice President – SCS Engineers
- Bruce Jernigan, Vice President, Environmental Protection– Waste Management (retired)/Senior Project Advisor – SCS Field Services
- Aron Katz, Biogas Systems Expert – John Zink Hamworthy Combustion
- Ron Kimble, Landfill Manager – Frederick County, VA
- Monte Markley, PG, Vice President and National Expert for Deep Well and Underground Injection Control, SCS Engineers
- Frank Natau, Senior Expert for Leachate Treatment and Waste-derived Effluents – WEHRL-UMWELT
- Ron Wilks, Vice President, O&M Manager – SCS Field Services

TECHNOLOGY & INNOVATION

9:00 AM – 10:15 AM

Autonomous Vehicles: Are We Any Closer?

Driverless vehicles continue to be a hot topic in the waste & recycling industry - but are we any closer to implementing this technology in our day-to-day operations? Find out the status of driverless refuse truck implementation, their potential contributions

to the industry, and the challenges that we continue to face.

Speakers: Martin Mattsson, Director of National Accounts – Volvo Construction
Mark Melletat, Director of Trailer Systems and Field Operations, WABCO

10:30 AM – 11:45 AM

New Data – Who Dis? What Data Collection Can Do for You

How can you plan where you want to go, if you don't know where you are? Data collection is crucial for establishing successful waste & recycling programs, especially in today's volatile market. It's necessary to measure and understand what and how much waste is being generated and discarded, and why. On top of that, the variances in reporting makes comparisons and benchmarking difficult, with each program having their own system, definitions, and reporting requirements. In this session, hear examples of how industry leaders are working towards reporting consistency to take on data measurement, and how businesses can use data to identify and reduce their waste and costs to work towards closing the loop on zero waste.

Speakers: Delores Rogers-Smith, Chief, Programs and Materials Management – US Environmental Protection Agency, Resource Conservation and Restoration Division, Larry Christley, Materials Management Program Manager – Tennessee Department of Environment and Conservation's (TDEC) Division of Solid and Hazardous Waste, Anna Dengler, Vice President of Business Operations – Great Forest

1:45 PM – 3:00 PM

Robots & Recycling: A Dynamic Duo

Over the past few years, robotics has found its place in the waste industry. Hear from experts and actual robotics users to find out how robots are addressing industry challenges such as safety, contamination, workforce shortage and more. Hear the benefits, challenges, and expectations of using this technology to make recycling more effective and accessible.

Speaker: Will Hancock, Vice President, Operations – Plexus Recycling Technologies

3:15 PM – 4:30 PM

Artificial Intelligence & The War on Contamination

As a result of China's refusal to accept contaminated recyclables, North American haulers are battling higher prices, lower earnings and weighing the need for operational changes. This has forced haulers to question if they can continue to provide recycling services at a loss and if the only solution is passing cost to customers. This market disruption, however, provides the chance to re-examine and improve current disposal & collection habits with modern monitoring & reporting technology. Join this panel as they examine modern technologies that are helping stop contamination at the source - improving hauler profitability and driving toward business and municipal zero waste goals. Hear real-world case studies that show how full-scale visibility across waste streams can reliably collect information needed to coach better household & business disposal habits, guide governmental regulations and modify operations to maintain clean streams from start to finish.

Speakers: Jason Gates, CEO – Compology, Jason Rose, Area Vice-President Pacific Northwest, British Columbia & Alaska – Waste Management

Tuesday, May 7, 2019

10:15 AM – 11:00 AM

SPOTLIGHT SESSION: CEO Interview: Sitting Down with Richard Burke

Join this session to hear a one-on-one “fireside chat” with the CEO of Advanced Disposal, one of the leading waste management companies in the U.S. Richard Burke will share his perspective on where we stand as an industry now, what significant challenges we face, and where the industry might be headed in the future.

Speaker: Richard Burke, Chief Executive Officer – Advanced Disposal

Moderator: Darrell Smith, President & CEO – National Waste & Recycling Association

11:10AM – 12:20PM

SPOTLIGHT SESSION: CFO Insights: A Look at the Waste & Recycling Industry

NWRA Women’s Council leverages unique access to bring together the most influential chief financial officers in waste & recycling. Leveraging their collective knowledge, this panel will share perspectives on what financial challenges and opportunities may arise over the coming years. This can’t-miss session provides a rare opportunity for attendees to participate in an engaging discussion with the industry’s top finance leaders.

Speakers: Dianna Cervantes, CFO, WCA Waste Corporation, Devina Rankin, Senior Vice President & CFO, Waste Management, Mary Anne Whitney, Senior Vice President & CFO, Waste Connections, Chuck Serianni, Executive Vice President & CFO, Republic Services, Ned Coletta, Senior Vice President & CFO Casella Waste Systems, Inc.

BUSINESS INSIGHTS & POLICY

12:30 PM – 1:45 PM

Engaging Your Stakeholders: Affecting Positive Change



Engaging consumers is key to changing behavior. Hear how several entities are finding innovative ways to engage and educate their consumers through education, operational strategies, and incentive. Attendees will walk away with several tools, strategies and resources that encourage positive changes to residents recycling behavior by improving a resident’s Recycling “IQ”.

Speaker: Chris Coady, Senior Technical Assistance Specialist– The Recycling Partnership

2:00 PM – 3:15 PM

Bidding Wars: Successfully Responding to Formal Municipal Bids



Placing a bid for a municipal contract can be overwhelming. Not only do you need to know how to find the right opportunities, but you must put together a winning package/response that beats out the competition. So, where do you start? How do you evaluate an RFP, RFB, RFI and RFQ, and when do you respond to each? When responding, what can you do to ensure your response stands out? Join this panel of experts to learn what the right tools are to have in place when it comes to bid notifications, how to evaluate RFPs, RFI, RFQs, when to respond to them, what the requirements are, and most importantly the steps to take to develop a winning bid response package.

Speaker: Philip Alia, Communications Manager – Advanced Disposal

3:30 pm – 4:45 pm

SPOTLIGHT SESSION: Navigating Technology in Waste & Recycling



In today’s climate, agility is critical for companies to stay competitive - you must be able to use technology to make real-time decisions and operate your business efficiently. Software, hardware, smart sensors, mobile devices - how do you navigate the technology that is best for your operation? Join this session to learn the steps you can take to not only implement the right technology, but also how to utilize it to make your operations more efficient.



COLLECTION & TRANSFER

12:30 PM – 1:45 PM

RFID, PAYT - Are These the Future of Waste?



We hear about Pay-As-You-Throw (PAYT) and the “uber” model of waste collection more and more these days, but how do you set up a program that works for both you and the customer? What role does technology play in this system, and does it really work? This session will share case studies on PAYT trash removal programs and the technologies being utilized, what challenges are faced, what benefits exist and what the end results are.

Speakers: James Hurt, Director of Public Works – Grand Rapids, MI, Robert Swain, Administrative Analyst – Grand Rapids, MI

2:00 PM – 3:15 PM

The Million Dollar Mistake: Avoiding the 5 Most Common OSHA Citations

It just takes one mistake to land you in hot water when it comes to OSHA compliance. In this session, you’ll find out:

- The 5 most common OSHA citations issued to sanitation industry employers
 - The main reasons why sanitation industry employers tend to fall short of expectations in these areas
 - How to develop policies and practices that will help avoid such citations in the future.
- Hear from all sides of OSHA compliance and understand the difference between theory and practice of workplace safety laws and regulations so you can develop a more effective safety compliance program for your company.

Speakers: Aaron Gelb, Partner – Conn Maciel Carey LLP, Barbara Goto, Regional Administrator – OSHA, Jerry Peters, Corporate OSHA Compliance Manager – Rumpke



ORGANICS RECYCLING & COMPOSTING

9:00 AM – 10:15 AM

Composting: Increasing Processing Capacity, Improving Process Management, Minimizing Contamination

Moderator: Carla Castagnero, President, AgRecycle Inc. PA

- Infrastructure Improvements to Maximize Processing Capacity for Food and Yard Waste Composting. Jeffrey Heath, GHD; Brian Fleury, Denali Water Solutions; Kirk Tomlinson, DSNY
- Methods to Achieve .5% Contamination in Organics. Tracie Onstad Bills, SCS Engineers. CA
- High Tech Composting, Off the Grid. Waylon Pleasanton Sustainable Generation, LLC. DE

10:30 AM – 12:00 PM

Food Waste to Energy via Anaerobic Digestion and other Technologies

Moderator: Tracie Onstad Bills, SCS Engineers. CA

- Biomethane Production From 100% Food Waste:

- AD Process Case Study. Michael Niederbacher and Bjoern Blankespoor, BTS Biogas Srl/GmbH. Italy
- Opportunities for Sustainable Energy in Processing, Consumption and Disposal of Food Through Anaerobic Digestion. Tom Drake, MTU Onsite Energy / Rolls Royce Power Systems. MN
 - Anaerobic Digestion Facilities Solve Food Waste Challenges and Sustain Farms. John Hanselman, CEO, Vanguard Renewables
 - Where Will All the Food Waste Go? Ryan Cooper, Rubicon Global. GA

1:00 PM – 2:30 PM

Anaerobic Digestion and Composting: Technological Improvements and Optimizing System Design; Organics Collection Strategies and Costs

Moderator: Gary Bilbro, EcoSafe Zero Waste

- Organics Processing: The Latest Developments in Anaerobic Digestion and Composting. Eric Herbert, CEO, Zero Waste Energy, LLC
- Optimal Food Waste Recycling: Anaerobic Digestion and Composting Technologies. Marieke Krompkamp, Waste Treatment Technologies, Netherlands B.V.
- Estimating Route Performance and Costs for Collection of Organics. George Savage, CalRecovery, Inc. CA
- How Co-collection Can Make Organics Programs Viable. Mark Dancy, President, WasteZero

2:45 PM – 4:15 PM

Best Management Practices and Case Studies: Anaerobic Digestion with Food Waste and Co-Digestion

Moderator: BethAnn Taylor, Taylor Environmental

- Developing Best Practices for Food Waste Digestion & Co-Digestion. Michael Corbett, Divert, Inc.
- Anaerobic Digestion with Food Waste and Co-digestion. Dave Baran, quasar energy group. OH
- Food Waste Impact Study: Sewer Process Modelling for Renewable Energy Production using Existing Infrastructure. Bart Kraakman1), C. Ransom2), T. Williams3), 1) CH2M-JACOBS, OR, 2) CH2M-JACOBS, CA, 3) CH2M-JACOBS, MI
- Energetic Use of Organic Waste to produce Biogas by Anaerobic Digestion Using Sewage Sludge as Inoculum. Diana Hernández and M. Lozano, Universidad Nacional de Colombia; José Martínez, Centro Desarrollo Ind. Tecsol

4:30 PM – 5:45 PM

Meeting Capacity Needs for Processing Food Waste and Other Organics Using Existing Infrastructure at Waste Water Treatment Plants

Moderator: BethAnn Taylor, Taylor Environmental

- A New Low-Cost Approach to Food Waste Management – Collection, Recycling and Renewable Energy. William Heller, Organic Waste Logistics Ltd.
- Creating a Business Case for Food Waste Co-Digestion at Wastewater Resource Recovery Facilities. Carol Adaire Jones, Environmental Law Institute. Washington DC
- Food Waste Disposers: A Sustainable Alternative to Landfills. Michael Keleman, Manager of Environmental Engineering, Emerson



FOOD RECOVERY FORUM

9:00 AM – 10:15 AM

Organic Waste Bans, Mandatory Organics Recycling Laws, and Related Strategies for Food Waste Management: An Analysis of Existing Policies, Challenges, & Opportunities

Harvard Law School Food Law and Policy Clinic and Center for EcoTechnology will present on a toolkit for states and cities interested in implementing organic waste bans or recycling laws. Attendees will learn best practices for implementing food waste bans and recycling laws to support the growth of food waste diversion in the way best suited to their state or local situation.

Speakers: Lorenzo Macaluso, Director of Client Services, RecyclingWorks/Center for EcoTechnology, Katie Sandson, Clinical Fellow, Food Law and Policy Clinic Center for Health Law and Policy Innovation, Harvard School of Law

10:30 AM – 12:00 PM

NOTHING WASTED!: Industry Visionaries Discuss Solutions to Food Waste & Wasted Food

In this session, you'll hear from thought leaders who will share their ideas about Solutions to Food Waste and Wasted Food - Prevention, Loss, Recovery, and Achieving a Sustainable Food System in the U.S.

Speakers:

- Darby Hoover, Senior Resource Specialist, Natural Resources Defense Council (NRDC) Food & Agric. Program. "Waste Not: The Problem of Prevention"
- Dr. Stephen Hamilton, Professor of Economics, California Polytechnic State University. "Keeping Food out of Landfills"
- Jonathan Deutsch, Ph.D., Professor, Center for Food and Hospitality Management and Department of Nutrition Sciences, Drexel University. "From Cost to Revenue: The Food System Sensitive Model for Keeping Nutrition Out of the Dumpster."
- Komal Ahmad, CEO, Copia. "How can we Solve the world's dumbest problem?"

1:00 pm – 2:30 pm

SPOTLIGHT SESSION: Reducing Food Waste and Increasing Organics Recovery in Municipal, Regional, and Commercial Programs

- Finding Pathways to Food Waste Diversion: How to Scale Programs No Matter the Infrastructure. Madisen Gittlin, Global Green, NY
- Cost Effective Food Scrap Recovery Models for Residential and Commercial Programs and Zero Waste Events: A Rural Case Study. Elisa Seltzer, Director, Emmet County Dept of Public Works. MI
- Building a Regional Food Waste and Organics Recovery Program. Jon Koch, Director Water & Resource Recovery Facility, City of Muscatine. IA
- Compostable Bioplastics: An Important Enabler to Food Scrap Collection. Richard Lombardo, Natur-Tec® – a division of Northern Technologies Intl. Corp., MN

2:45 PM – 4:15 PM

Technology Innovations and other Solutions to the Problem of Wasted Food

Moderator: Lorenzo Macaluso, Center for EcoTechnology

- A Startup Turning Food Waste into a Force for Good. David Rodriguez, Food for All. MA
- The Future Food Cycle is in Las Vegas. Yalmaz Siddiqui, MGM Resorts International. NV Aided in part by its concentration of hotels, the region has implemented several best-practice food waste recovery programs that can serve as models for other cities around the world. Each program directs food waste to its best-use destination. Source reduction will also be discussed.
- Solving Your Company's Dumbest Problem: Food Waste. Komal Ahmad, CEO, Copia. CA
- Energy from Food Waste: Flipping the Perspective. Michael Corbett, Divert Inc. MA

4:30 PM – 5:45 PM

Source Separation and Collection in Commercial and Municipal Programs: BMP's, Data Collection and Evaluation, Lessons Learned, Case Studies

- Moderator:** BethAnn Taylor, Taylor Environmental
- Estimate and Evaluate Outcomes of Food Scraps Collection for Continuous Improvement. Holly Stirnkorb, Senior Planner, Metro. OR
 - Split-Cart Food Scraps Recycling. Lisa Coelho, SCS Engineers, CA
 - Capture More Food Waste and Reduce Contamination at Food Establishments: Developing Best Practices for Front-Of-House Collection. David Fridland, Eco-Products; Kate Bailey and Dale Ekart, Eco-Cycle



PROCESSING & DISPOSAL

12:30 PM – 1:45 PM

Plastic: Many Views on Single Use



- In 2018, Collins' dictionary adopted "single-use" as the word of the year. As single-use is higher in the consciousness of the average American, is it any wonder that the industry has differing opinions on what to do with these materials at the end of life? Speakers will discuss marine debris, conversion technology, policies and regulations and the functions and disadvantages offered by single-use plastics.

Speaker: Priyanka Bakaya, CEO & Founder – Renewlogy

2:00 PM – 3:15 PM

Cannabis Waste: A New Frontier

As the legalization of marijuana continues across the US and North America, managing its waste (which the cannabis market is known to generate a lot of) is more important than ever. But what are the challenges of managing cannabis waste? What are the advantages? Which laws and regulations around transporting across state and national borders must you be aware of? What are the requirements for how it should be processed at the facility? What opportunities for technology and waste innovation does this provide? Get answers to these questions and more during this stimulating session.

Speaker: Rich Thompson, CHMM, Managing Partner, TEC, LLC



TECHNOLOGY & INNOVATION

12:30 PM – 1:45 PM

Data Analytics & Measuring Success: Do They Go Hand in Hand?



Over the past several years, the waste industry has evolved significantly. Traditional recycling facilities have been joined by composters, e-waste processors and anaerobic digesters, all of which have helped make it possible to extend the life of the objects we use every day. But as organizations reach for lofty sustainability goals, like zero waste, a new question emerges: how can you measure success? It should come as no surprise, then, that there are many opinions and conversations around the best way to measure success. Though there is no perfect solution to measuring success yet, it all comes down to utilizing data and analytics. This session will share how the Department of Solid Waste Services (SWS) of Anchorage, Alaska has developed a performance dashboard that engages staff and the public to drive strategies, measure performance, set goals, and automate the extraction of data. Also hear from

Rubicon's Vice President of Sustainability on which three data points should be used to measure success in the quest for zero waste.

Speakers: David Rachelson, Vice President of Sustainability – Rubicon Global, Mark Spafford, General Manager – Municipality of Anchorage, Department of Solid Waste Services

2:00 PM – 3:15 PM

Current Business Trends Shaping the Industry: What You Need to Know



Are you looking for insight into the latest business trends happening in the waste industry? Join this panel of experts who bring years of deep industry experience, unique perspectives, quantitative data and analysis, and important insights about where things have been, and more importantly, where things seem to be going in waste & recycling.

Speakers: Leone Young, Principal – LTY ERC, LLC; Richard Sterner, Managing Director – Sterner Consulting; Daniel Butturini, Principal – Sterner Consulting; James Thompson, Principal – Waste Business Journal

Wednesday, May 8, 2019



BUSINESS INSIGHTS & POLICY

9:00 AM – 10:15 AM

Zero Waste: Fantasy or Reality?



A perpetual motion machine sounds great but impossible because it violates the laws of nature. Zero waste also sounds great. But, is it like a perpetual motion machine? Distilled to its essence, all material will flow through a circular economy with no residuals to be managed, either by land, air or water. Resources are conserved. Is that realistic? Or is it a wonderful fantasy? What can be realistically achieved and how can we use a "satisficing" approach to get the best outcome?

10:30 AM – 11:45 AM

The Future of Franchising



Franchising continues to be a hot issue in the waste & recycling industry but is it here to stay? Hear from both public and private representatives who are on the frontline about the pros and cons of franchising, where it stands, and where it might be headed.

12:15 PM – 1:30 PM

The Latest on Sustainability Initiatives



Hear perspectives from inside and outside of the industry about waste reduction & sustainability goals - what drives them, how they'll be achieved, and what challenges they continue to face – and the effect all of this has on the waste industry.

1:45 pm – 2:45 pm

NOTHING WASTED!: Pioneers & Visionaries

With Nothing Wasted! we're creating an open forum for new ideas. So, get ready to hear inspired talks from a wide array of thought leaders and visionaries! In each session, you'll hear from three to four thought leaders, visionaries, seekers and seers—who'll share impactful, inspirational, influential, or even provocative ideas. You'll walk away with powerful ideas and perspectives that will make you a more thoughtful and creative problem-solver on the job. Don't miss this chance to think about the waste industry in brand new ways!

Speakers: Monica Wilson, Policy & Research Coordinator, and Associate Director – GAIA Office U.S.



COLLECTION & TRANSFER

9:00 AM – 10:15 PM

New! People's Choice Session

This is one of two sessions designed to give you the power to decide what you want to learn about at WasteExpo! We published a survey earlier this year asking you and your industry peers to vote on the topics most interesting and relevant to you. This session will be the result of that survey, focusing on one of the following topics:

- Traffic/Exports • Consumer Education • Circular Economy • Cybersecurity • Hard to Recycle Items • Block Chain

Stay tuned to find out the chosen topic!

10:30AM – 11:45AM

Closing the Loop:

Where Do We Stand on Circular Economy

In the past, it seemed like developing a circular economy in the waste & recycling industry was within reach. But in today's market, that goal seems to be slowly distancing itself. What is being done now, and in the near future, to bring that goal a little closer to reality yet again?

Speaker: Maite Quinn, Managing Director – Closed Loop Partners

12:15PM – 1:30PM

New Contract, New Me: How to Prepare for Negotiations in Today's Climate

In today's climate, negotiating a contract has become more important than ever. Find out the necessary steps to executing successful solid waste partnerships between the public & private sector that are essential for industry growth and achieve win-win opportunities for all parties.

Speaker: Rob Hilton, HF&H Consultants, LLC



ORGANICS RECYCLING & COMPOSTING

9:00 AM – 10:15 PM

Innovative Waste Conversion Technologies for Processing Bio-Waste and Creating Renewable Fuels and Energy – Part 1

- Moderator:** Ryan Cooper, Rubicon Global
- Gasification: Clean Energy for Landfill Diversion. Jeff Snyder, VP Business Development, Aries Clean Energy
 - Renewable Natural Gas 101: What is it and Why Should I Care. Scott Chabina. Marathon Capital, LLC
 - Food Waste and Recycled Paper A New Source of Industrial Chemicals. Edward Calt, Integrated BioChem, LLC. NC
 - Rialto Bioenergy Facility Case Study: Integrating Advanced Pyrolysis & Anaerobic Digestion. Courtney Harr, GHD

10:30 AM – 12:00 PM

Maximizing Organics Waste Reduction & Diversion

- Moderator:** George Savage, CalRecovery, Inc.
- A New Era for Waste and Recycling in California: Realizing the Organic Waste Reduction Goals of SB 1383. Veronica Pardo, CRRC Northern District Regulatory Affairs Director. California Refuse Recycling Council (CRRC), Sacramento, CA.
 - Integrated Waste & Organics Processing to Maximize Diversion. Eric Herbert, CEO, Zero Waste Energy, LLC. CA
 - Getting Clean Organics at the Source: Education and Outreach. Kimberly Scheibly, Director of Compliance & Customer Relations, Marin Recycling & Resource Recovery. CA

- Organics Waste Minimization Strategies in Philadelphia. Scott McGrath, Environmental Planning Director, City of Philadelphia, and Terry D Keene, Keene Environmental Consulting LLC

1:00 PM – 2:30 PM

Innovative Waste Conversion Technologies for Processing Bio-Waste and Creating Renewable Fuels and Energy – Part 2

- Moderator:** BethAnn Taylor, Taylor Environmental
- Zero Heroes – on Zero Waste, Net Zero GHG, carbon Negative Fuel, near-Zero NOx. Evan Edgar, Principal, Edgar & Associates, Inc., CA
 - Advanced Biorefineries for a Sustainable Waste Diversion & Transition to a Circular Economy. David McConnell, VP, Enerkem Inc. CAN
 - Maximizing the Value of CNG/RNG: Lessons Learned and Best Practices. William Zobel, Trillium CNG
 - Market Drivers and Challenges for Landfill High BTU Projects. Nadeem Afghan, BIOFerm Energy Systems. WI

2:45 pm – 4:00 pm

From Rotten Apples to Juicy Returns: Investors Discuss Financing Organics Recovery and Waste Management Projects

Moderator: John Dannan, Generate Capital

How do you raise financing for a project? This session will cover the fundamentals of what investors look for when investing in organics and other waste projects and technologies. Speakers representing different types of capital will give an overview of what type of capital you'll need at every stage of the project and how you can present in a way that makes your project stand out.

4:15 PM – 5:45 PM

Technologies and Equipment for Managing Odors at Organics Recovery Facilities; Pre-Treatment Equipment for AD

- Ozone in Air for Composting Odor Control. Allan Finney, and Greg Duns, Envron Environmental Ltd.
- Aerosol Lofting for Odor Control. Robert Ballantyne, Director of Research and Development, Resource West, Inc.
- Innovative Approaches to Eliminating Odor at Compost and Organics Recycling Facilities. Michael Lewis, BossTek
- Cyclonic Separation Treatment for AD. Jeremie Steward, DRYCAKE



FOOD RECOVERY FORUM

9:00 AM – 10:15 AM

Panel Discussion: Scrap Your Fears About Food Waste: A Guide to Implementing an Organics Collection Program

Attendees will learn best practices for municipalities developing or improving food waste and organics programs. Panelists will present case studies & provide a comprehensive review of steps in the process, e.g., city, hauler, processor. All phases of organics program development will be addressed including Research: collecting qualitative and quantitative data through surveys, & focus groups to inform program development; Planning: Identifying compost facilities and the infrastructure to collect/transport organic waste; Choosing the proper equipment, best practices for educating residents on organic waste collection, impact of regulations and the trend toward zero waste, collection operations logistics; and Program Implementation.

Moderator: Kristin Kinder, Director of Research and Waste Stream Sustainability, Wastequip

Panelists:

- Charlotte Pitt, Operations Manager at Denver Solid Waste, City of Denver
- Dave Vaughn, VP & Senior Director of Business and Market Development, Recology. CA
- Ned Foley, Owner, Two Particular Acres; Managing Member, American BioSoils & Compost. PA

10:30 AM – 12:00 PM**Food Rescue and Recovery: An Analysis of Problems and Solutions, Successful Strategies, Model Programs, and BMP's for Fundraising****Moderator:** BethAnn Taylor, Taylor Environmental

- Replate Ensures #EveryoneEats. Jen Fedrizzi, Replate
- Industry, Safety Net, and Community Partnerships for Food Recovery. Marv Zauderer, Founder, ExtraFood.org, CA
- Food Recovery Network: The Largest Student Led Movement Against Food Waste and Hunger. Hannah Cather, Program Manager, Food Recovery Network
- Challenges in Fundraising for Food Recovery Networks. Chef Jackson Lamb, Professor of Hospitality and Urban Agriculture, Metropolitan State University of Denver

1:00 PM – 2:30 PM**Food Recovery & Organics Recycling in Schools; Zero Waste Trends in Higher Education**

- Implementing Organics Recycling and Maximizing Waste Diversion in Schools. Tate Moeller, Organix Solutions, MN
- K-12 Cafeteria Waste Management Practices and Trends. Debra Kantner Data & Policy Program Director and Dr. Bryan Staley, President, EREF. NC
- **Zero Waste Trends in Higher Education** University campuses offer unique zero waste opportunities and challenges. Come hear from national leaders in this sector who are charting new ground in zero waste programs, policies, and infrastructure. This panel includes a mix of public and private institutions from across the country that will share their best practices, data insights, and innovations driving measurable progress towards zero waste.

Moderator: Amity Lumper, Co-President, Cascadia Consulting Group, Inc.**Speakers:** Fahmida Ahmed, Sustainability Director, Stanford University, Kelly O'Day Weisinger, Assistant Director of Sustainability at Emory University and Emory Healthcare**2:45 PM – 4:00 PM****Zero Waste, Above and Beyond Organics Diversion****Moderator:** BethAnn Taylor, Taylor Environmental

- Designing for Zero Waste. Anna Dengler, Vice President of Business Operations, Great Forest
- White Bear Lakes Area Schools: A Waste Diversion Program that Net the School District Savings of \$81,000 a Year. Jodi Taitt, Founder & Principal Consultant, EcoConsilium
- Diverting Waste Through the Art and Science of Achieving Behavior Change. Arnold Bowers, Business Solutions Director, ENGIE Insight and Jeff Ruskowitz, Director Sustainable Operations, Caesars Entertainment

4:15 – 5:45 PM**Small Scale & Scalable Food Waste Recycling Technologies, Equipment for Food Waste Generators****Moderator:** Tate Moeller, Organix Solutions

Speakers will discuss small scale composting and processing systems designed for commercial establishments, institutions, and residential processing of food waste. Selected systems are scalable to

process residuals from multiple establishments.

- Feasibility Study for Micro-Digester Co-Located at Food Bank. Katie Chapman, Lyndsey Lopez, and Todd Williams. Jacobs. CA
- Food Waste & Trash = Energy & Cash\$. Craig Shaw, CEO, Advetec.
- Landfill Diversion Through Food/Organic Waste Separation & Depackaging. Corey Rossen, Ecoverse
- Equipment for Organics Separation. David Suihkonen, Organix Solutions. MN

**PROCESSING & DISPOSAL****9:00AM - 11:45AM****Spanish Super Session**

The Spanish Super Session is a new education course designed for our Spanish speaking attendees. This course will be divided into two parts. The first segment will focus on the topic of landfills and the second segment will cover the topics of recycling and sustainability. The course is free to attend.

*Separate registration required

9:00AM – 10:15AM**Mixed Paper Bootcamp: Diving In**

With China's withdrawal from the global Mixed Paper market, over the last year two million tons of Mixed Paper in the US have been searching for new consumers. Experts Bill Moore and Susan Cornish will take a deeper dive into mixed paper, focusing on the activities happening in alternative markets: export to countries other than China, new capacity to use Mixed Paper at existing domestic paper mills, and development of Mixed Paper pulp mills in the US, producing clean pulp for both domestic and export use.

Speakers: Bill Moore, President, Moore & Associates, Susan Cornish, President, Insight+Action**10:30 AM – 11:45 AM****Communication as a Tool to Boost Sustainability**

In an effort to boost sustainability and landfill diversion, the ever-evolving resource management industry has increasingly relied on technological advances to meet their goals. However, one of the most valuable tools – communication – is often overlooked. Keeping customers informed and engaged is critical to driving successful recycling initiatives. This panel will share examples of strategies implemented by Central Texas cities and communities using local events, applications and social media channels to integrate their waste goals and connect with their residents to collectively work towards a better, cleaner environment.

Speakers: Ryan Buhay, Account Executive – ReCollect, Travis Mitchell, Mayor – City of Kyle, TX, Cecilia Roberts, Board Member – Blockhouse Mud District, Stacy Schmitt, Director of Marketing & Communications – Texas Disposal Systems**12:15 PM – 1:30 PM****Single Stream vs. Dual Stream**

Single stream or dual stream? This is often a highly debated topic without a solid answer. This session will continue the debate, sharing insight into both. Hear how the Solid Waste Authority of Palm Beach worked with the city of Lake Worth, FL to return from a single stream recycling process back to dual stream, followed by a case study on the benefits/challenges of moving from a dual to a single stream process.

Speaker: Willie Puz, Director of Public Affairs & Recycling – Solid Waste Authority of Palm Beach

Thursday, May 9, 2019

NEW! Workshop Day

*Separate registration is required for each workshop.



8:30 AM – 12:30 PM

NWRA Safety Symposium

Participate in this half-day safety symposium featuring former U.S. Department of Labor Assistant Secretary for OSHA David Michaels. As one of the top five most dangerous professions in America, safety is the number one priority for the waste & recycling industry. This comprehensive safety workshop will go in-depth, covering everything from new safety solutions, regulatory updates, proven industry safety programs, OSHA compliance and more. Plus hear from David Michaels, the longest-serving Assistant Secretary of Labor for OSHA in history.



8:30 am – 12:30 pm

Recycling Myths, Legends and Pseudoscience: Understanding Objective Realities in Materials Recovery

“Recycling is good, all the time... and all the time, recycling is good.” This adage represents a viewpoint that has permeated our society for the last 40 to 50 years. But, is this perspective built on sound science, or have myths and pseudoscience propped up the? What is reality when it comes to recycling? When is recycling good? And, are there situations when recycling may be bad? This workshop will take a provocative look at recycling in an attempt to address some of these questions. Using current science and data, various topics will be explored to evaluate if claims about recycling pass the test or are simply contamination.

9:00 AM – 12:00 PM

How to Start a Food Waste Diversion Program for Waste Generators

Instructor: Gary Bilbro, EcoSafe Zero Waste

This workshop will teach waste characterization and diversion processes for food and other organics for any entity generating, hauling or processing organics and those that regulate the sector. Understanding feedstock materials, contamination issues, container and collection options, and BMP's for handling food and other organic waste. Identifying the benefits to the environment and your bottom line. Anyone that wants to learn more about starting a sustainable food waste program will benefit by attending this workshop.

8:30 AM – 12:30 PM

Introduction to Zero Waste – Certified Training

Instructor: Richard Anthony, Richard Anthony

Associates, VP of Zero Waste USA and Chair of the Zero Waste International Alliance Attendees will learn:

- Why Zero Waste is the fastest, most cost-effective way communities can reduce climate change impacts, promote local sustainability and create green jobs
- How more than 250 U.S. municipalities are systematically pursuing high diversion and Zero Waste
- What Zero Waste businesses – now in the thousands, are doing to help lead the way
- How your community could move toward Zero Waste
- Where to find the resources needed to further your own knowledge and practice of Zero Waste

This class is taught in a lively, interactive manner by a nationally renowned expert. The content is designed to be easy to retain and the extensive resources are easy to access. It is valuable municipal staff, haulers, decision makers, advocates and all interested in Zero Waste. Certificates of Completion are awarded to students that pass the open book exam and turn in the evaluation.