WasteExpo is all about YOU

CEO SPOTLIGHT
Worthing Jackman, CEO of Waste Connections

STUFF: THE HIDDEN BORDERLAND OF WASTE & RECYCLING
Adam Minter, author of Secondhand

WasteExpo 2020

Conference & Special Events: August 10-13, 2020
Exhibits: August 11-13, 2020
Ernest N. Morial Convention Center
New Orleans, LA, USA

wasteexpo.com

REGISTER BY MAY 20 TO SAVE! WASTEEXPO.COM
WasteExpo 2020. It’s all about YOU!

WasteExpo has been the showcase for cutting-edge innovations for 50+ years and hosts the premier educational forum for every sector of the solid waste, recycling and organics industry. From finance to organics, you’ll hear from the best in the business.

You want more networking? Everyone who is someone in the industry will be there – to share ideas, forge new relationships, cement existing ones, and do some real deals.

What can you expect from WasteExpo 2020?

- **600+ exhibitors** ready to help with your latest challenges
- The most **comprehensive education program** in the industry with technology and innovation at the forefront
- The **popular (and FREE!) Spotlight Sessions are back**, keeping you informed and ahead of the trends
- **Waste360/Stifel Investor Summit** – Gain insights into today’s waste and recycling market and the forces driving it.
- The **Food Recovery Forum** is THE place to learn ways to solve social and environmental issues of wasted food as well as means to profit from the recovery and reuse of food waste.
- **Business Leadership Forum returns**! Hosted by Comerica Bank, this forum is designed for small and midsized companies looking for financial strategies that go beyond day-to-day operations.
- **Public Sector Super Session** – From The Recycling Partnership’s Feet on the Street in Atlanta to the electrification of fleets, you won’t want to miss this NEW jam-packed session.
- **The Spanish Super Session is back**! Enjoy this FREE education course designed for our Spanish-speaking attendees.
- **Join the Thursday Workshops** – choose from four half-day workshops that focus on safety, recycling, zero waste and understanding data.
- **14,500+ participants** (hopefully including YOU!)

We look forward to seeing you in #NOLA.

**The WasteExpo Team**
CO-LOCATED CONFERENCES

Waste (360). Investor Summit
Monday, August 10, 2020
7:30AM – 5:30PM
Ernest N. Morial Convention Center
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 learn 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.

Sponsored by

Please note that additional registration is required for this conference. Register at WasteExpo.com

Waste (360). Business Leadership Forum
Tuesday, August 11, 2020
11:30AM – 4:00PM
Ernest N. Morial Convention Center
Structure and strategy are two of the most important factors in running a successful business. The Waste360 Business Leadership Forum, hosted by Comerica Bank, 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 for growing your business. Lunch is hosted by KPMG and the cocktail reception is hosted by HUB. Please note that additional registration is required for this conference. Register at wasteexpo.com.

Sponsored by

Waste (360). Healthcare Waste Conference
Tuesday, August 11, 2020 – Wednesday, August 12, 2020
Ernest N. Morial Convention Center
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 2020. Please note that additional registration is required for this conference. Register at healthcarewasteconf.com.

Sponsored by

SPECIAL EVENTS

You asked for more networking opportunities! WasteExpo’s Special Events are part of what makes this THE annual reunion for the industry. Enjoy this chance to connect with your colleagues from around the world.

Monday, August 10, 2020
WasteExpo Welcome Reception
6:30PM – 9:00PM
Generation’s Hall, New Orleans, LA
Attend the best party in town and the industry’s biggest reunion to kick-off WasteExpo at the WasteExpo Welcome Reception hosted by New Way.

WasteExpo Welcome Reception Hosted by New Way

Tuesday, August 11, 2020
NWRA Awards Breakfast 2020
7:30AM – 9:30AM
Ernest N. Morial Convention Center
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.

NRWA Awards Breakfast 2020
Hosted by

Tuesday, August 11, 2020
EREF Charitable Auction & Silent Auction
The Environmental Research & Education Foundation will host its annual charitable auction and silent auction at WasteExpo 2020 in New Orleans. 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, August 11, 10:00 AM until Wednesday, August 12, 3:30PM
EREF Reception Wednesday, August 12 at 3:00PM
Live Auction Wednesday, August 12 at 3:30PM

Public Sector Networking Event
5:00PM – 6:30PM
Ernest N. Morial Convention Center
Meet and network with fellow public sector professionals at WasteExpo’s Public Sector Networking Event hosted by Sourcewell. This event is open for attendees who register for WasteExpo as Government/Public Sector. It will follow the Public Sector Super Session and will be a great way for you to keep the conversation going with speakers and peers alike.

Hosted by

Supporting Sponsors
### 2020 Exhibitor List (as of January 9, 2020)

<table>
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<tr>
<th>Industry</th>
<th>Company Name</th>
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<td>Alternative Fuels</td>
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WasteExpo Exhibit Hall Hours:

Tuesday, August 11 10:00AM – 5:00PM
Wednesday, August 12 10:00AM – 5:00PM
Thursday, August 13 10:00AM – 1:00PM
Tuesday, August 11

CEO Interview: One-on-one Chat with Worthing Jackman, President & CEO, Waste Connections
Join Worthing Jackman President and CEO of Waste Connections, for a fireside chat with Darrell Smith, President and CEO of NWRA. The two will discuss leadership, business insights, industry issues and much more. Jackman, who has been a part of Waste Connections since its inception in 1997 as its investment banker, was named CEO of the company in July 2019. Attendees will hear first-hand from Jackman about his rise to CEO of the third-largest waste management company in the U.S., where we stand as an industry and where we might be headed in the future.

The Waste & Recycling Industry Employment Outlook
The National Waste & Recycling Association Women's Council leverages unique access to bring together the industry's most influential human resource leaders. Hear their collective knowledge and learn what challenges and opportunities may arise on issues such as talent acquisition, workforce development and employee retention. Attendees will have the chance to engage with this expert panel.

Feet on the Street Atlanta—
The Recycling Partnership's Case Study on Citywide Contamination Reduction
Feet on the Street was originally launched as a pilot program by The Recycling Partnership (TRP) in part to answer China’s National Sword policies. It now serves as a foundational model for TRP’s contamination-fighting methods implemented in communities across the country.

Join the stakeholders involved in Feet on the Street (FOTS) – Atlanta and learn about the program’s inception, execution and success. Hear about role in FOTS, challenges faced, lessons learned and initial results from the program’s first year.

You’ll see never-before-shared data about the program, including: updated contamination rates after tagging Atlanta’s 98,000 single-family homes; multicultural communications best practices; capture rate studies from 15-plus multi-family properties; and more. Walk away with the inspiration and data to make real changes or improvements in your own cities or businesses.

Speakers: Cody Marshall, Chief Community Strategy Officer, The Recycling Partnership; Cecilia Shutters, Recycling Technical Advisor – Atlanta, The Recycling Partnership; Kanika Greenlee, Executive Director, Keep Atlanta Beautiful Commission at city of Atlanta; Sustainability Representatives from The Coca-Cola Foundation, Multi-Family Housing, Atlanta and University Housing, Atlanta

Reducing Food Waste and Increasing Recovery in Municipal, Regional, and State Programs
- Food Recycling and Rescue – Los Angeles County’s Three-Pronged Approach. Suk Chong, Senior Civil Engineer, Los Angeles County Public Works and Michelle Leonard, Vice President, SCS Engineers
- Accelerate Food Waste Reduction Through Collaboration. Holly Strinklbr, Senior Solid Waste Planner, Metro. OR
- Eating the Food Scraps Elephant: How Madison, WI is Tackling the Problem of Food Scraps a Bite at a Time through Prevention and Diversion. Bryan Johnson, Recycling Coordinator, Stacie Reece, Sustainability Program Coordinator, and George Reistad, Food Policy Director, City of Madison, and John Welch, Director Waste & Renewables, Dane County. WI
- Santa Clara County Community Based Social Marketing (CBSM) of Food Waste Reduction Program and Food Recovery Efforts Project. Lisa Coelho, SCS Engineers, CA

Plugging Into Opportunities in Refuse Fleet Electrification
Add another level to the technology tsunami that is propelling the waste industry into its brave new future. Alongside artificial intelligence and robotics add fleet electrification to the list as private haulers, municipalities (and their blended partnerships) embrace the idea of electrified refuse vehicles. This session will look at the opportunities and the challenges that come with an electrified refuse vehicle – battery life, power management, driver training and awareness are all part of this new domain along with the benefits of emissionless, quieter vehicles and possibly less rigorous maintenance routines. Hear from organizations that currently have electric vehicles out in the real world, what they are experiencing and what new trials will be released in 2020.

Wednesday, August 12, 2020

Ryan Hickman – Ten-year-old Recycling Superstar Represents the Future of Recycling
Ryan Hickman details how his passion for recycling grew from a fun project with dad, to launching a young entrepreneur and media spotlight, to recognition as a youth environmentalist. Ryan, a young man with a mission to do much more will take us through this transformation and share some of his amazing experiences. Hear firsthand how he’s been able to use recycling awareness to support his environmental cleanup events and to support marine rescue centers. Ryan will reinvigorate and inspire us to make the world a better place and show us how recycling is one effort that’s making a real difference.

Adam Minter – Stuff: The Hidden Borderland of Waste and Recycling
In the early 2000s, Adam Minter began exploring the hidden world of globalized recycling, producing groundbreaking reports from China, India, Ghana, and other countries. Then, in the mid-2000s, he abruptly shifted focus to the world of thrift stores and secondhand goods. In his talk, Minter will explain the circumstances that led him to this shift and show why the growing tide of “single-use stuff”—from fashion to furniture—should concern waste and recycling professionals as much, if not more, than better-known problems like single-use plastics. Using his signature method of narrative storytelling, Minter will merge his personal experiences and observations.
Monday, August 10

Unique Beginnings  Track: Operations, Fleet & Safety  1:45PM – 3:00PM
Glitz and glamour and waste and recycling often don’t go hand in hand. So, how is it that folks get into the waste and recycling industry? Is it a history of family generations already in the business, the potential of a steady industry and career or simply a bit of dumb luck and a dream? This session will share unique success stories on how careers are built in the waste industry.

Tuesday, August 11

War on Plastics  Track: Technology & Innovation  3:00PM – 4:15PM
Plastic has become a hot topic the past few years, and it is only going to continue heating up. With new bans, more restrictions, changing markets, and an emphasis on sustainability and circular economy, the challenge of finding real solutions to manage plastic waste has become a priority. But there are differing views on how to attack this issue. What are the financial implications of recycling plastic? What are the infrastructure challenges? Is our energy better spent on addressing the root of the problem and limiting the use of plastic all together? Find out what steps are being taken to address this growing global problem.

History of Recycling – Live  Track: Recycling & Landfill  1:30PM – 2:45PM
In the coming years, some of the industry’s brightest and most-experienced colleagues will be retiring. This session seeks to capture their “tribal” wisdom on the history of recycling and, most importantly, what we can learn from it today. Join this session to find out the true meaning of recycling, what successful recycling systems have had in common, and how we can apply historical knowledge to our current recycling industry. Hear a vibrant introduction of the major twists and turns in recycling’s evolution over centuries and particularly the last few decades, as well a current overview of recycling in the U.S. in 2020. This will be followed by a lively panel who will answer questions and share insight on:
• Resilience—Although recycling feels in peril, we are just experiencing another shift in the system, where we could create a stronger recycling industry, or at least one better evolved to today’s environmental, economic, political, and social climate.
• Tactics—Tactical lessons from our recycling history that could apply to today.
• History—How external forces have shaped our views of recycling and how we can anticipate the external forces impacting our recycling system today.

Wednesday, August 12

Addressing Climate Change & Packaging  Track: Technology & Innovation  12:15PM – 1:30PM
Climate change continues to be a highly debated topic in today’s world. In fact, the Oxford Dictionary’s word of the year for 2019 is “climate emergency”. And when talking climate change in relation to waste, especially when it comes to packaging, people tend to focus on recycling. But is recycling always the best option? Or would it be better to have lightweight packaging that is thrown away? Find out the impact and effects recyclable packaging really has.

Visionary Perspectives on Sustainable Systems, Zero Waste, and Biofuels  Track: Organics Management | Food Recovery Forum  1:40PM – 2:40PM
Moderator: Leah Lizarondo, 412 Rescue
• The Zero Waste Approach to Managing Compostable Organics. Richard Anthony, Zero Waste USA. CA
• Sustainable Community Systems Incorporating Solid Waste Management. George Savage, Senior VP, CalRecovery. CA

Closing Plenary: Food Waste Paradigms  Track: Organics Management | Food Recovery Forum  4:10PM – 5:00PM
Moderator: Darby Hoover, NRDC
• Food Recovery is Not Enough to Impact Hunger. Leah Lizarondo, 412 Rescue. MA
• There’s More Than Enough: Minimizing Waste, Maximizing Savings. Komal Ahmad, CEO, COPIA. CA

REGISTRATION IS EASY!
Visit WasteExpo.com to register today!

The Premium Package is your best value and includes:
- 3 days of WasteExpo education sessions (includes the Composting & Organics Recycling Track)
- 3 Days of WasteExpo Exhibit Hall
- 3 Days of Food Recovery Forum
- 2 days of Healthcare Waste Tabletop Exhibits
- 1 Ticket to the WasteExpo Welcome Reception
- Unlimited access to WasteExpo on-demand

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 May 20, 2020!

Register by May 20, 2020 to save.

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 Leadership Forum, and Thursday’s workshops.
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 1/8/2020 – Session topics, speakers & moderators are subject to change.)

### Monday, August 10

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00-10:15 AM</td>
<td>Sky High Recycling: From Ground Level to 30,000 Feet</td>
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<td>10:30-11:45 AM</td>
<td>Cart Technologies: From Critter Proofing to RFID</td>
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<td>10:30-12:00 PM</td>
<td>Safety Solutions: Turning to Tech</td>
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<td>12:15-1:30 PM</td>
<td>Modern MRFs: How Technology is Shaping Today’s MRFs</td>
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<td>1:45-3:00 PM</td>
<td>NothingWasted! Unique Beginnings</td>
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<td>2:30-3:45 PM</td>
<td>Re-thinking Your Safety Program</td>
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<td>3:15-4:30 PM</td>
<td>Organics Diversion and Collection</td>
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### Tuesday, August 11

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<th>Time</th>
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<tr>
<td>9:00-10:15 AM</td>
<td>Evaluating Operations Management Options: Composting Odor Control; Equipment Maintenance</td>
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<td>10:15-11:00 AM</td>
<td>SPOTLIGHT SESSION: CEO Interview: One-on-one Chat with Worthing Jackman, President &amp; CEO, Waste Connections</td>
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<td>10:30-11:50 AM</td>
<td>SPOTLIGHT SESSION: Reducing Food Waste and Increasing Recovery in Municipal, Regional, and State Programs</td>
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<td>11:10 AM-12:30 PM</td>
<td>SPOTLIGHT SESSION: The Waste &amp; Recycling Industry Employment Outlook</td>
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<td>12:55-2:05 PM</td>
<td>Panel Discussion on The Future of Organics in California</td>
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<td>1:30-2:45 PM</td>
<td>Utilizing Tech &amp; Data for Business Operations</td>
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<td>1:45-3:15 PM</td>
<td>SPOTLIGHT SESSION: Feet on the Street Atlanta—The Recycling Partnership's Case Study on Citywide Contamination Reduction</td>
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<td>2:15-3:30 PM</td>
<td>Operations: A View from the Hauler</td>
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<td>NothingWasted! War on Plastics</td>
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<td>3:30-5:00 PM</td>
<td>SPOTLIGHT SESSION: Plugging Into Opportunities in Refuse Fleet Electrification</td>
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<td>3:45-4:45 PM</td>
<td>Grants and Subsidies for Organic Recycling</td>
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### Wednesday, August 12

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<th>Time</th>
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<tr>
<td>9:00-10:15 AM</td>
<td>MRF Recycling Technologies</td>
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<td>10:25-11:40 AM</td>
<td>NothingWasted! Addressing Climate Change &amp; Packaging</td>
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<td>12:15-1:30 PM</td>
<td>A Heavy Conversation: Addressing Truck Weight Issues</td>
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<td>1:40-2:40 PM</td>
<td>NothingWasted! Cybersecurity Concerns: Managing Data in Waste</td>
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<td>1:45-3:00 PM</td>
<td>NothingWasted! The Ins &amp; Outs of Building Your Facility</td>
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<td>2:50-4:00 PM</td>
<td>[FRF #1] Small Scale &amp; Scalable Food Waste Recycling Technologies for Food Waste Generators</td>
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<tr>
<td>3:15-4:30 PM</td>
<td>NothingWasted! Closing Plenary: Food Waste Paradigms</td>
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### WasteExpo Workshops

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<tr>
<td>8:30 AM-12:30 PM</td>
<td>Food Waste and Organics Diversion for All Waste Generators: Commercial, Residential, and Institutional</td>
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<td>8:30 AM-12:30 PM</td>
<td>Introduction to Zero Waste Certified Training</td>
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**Organics Management**

- Keynote Session: Progress on Food Waste Prevention, Reduction, & Recovery
- Anaerobic Digestion: Technologies, Feedstocks, Successful Case Studies
- Composting Technologies, Case Studies, BMP’s, Public-Private Partnerships
- Anoxic Digestion: Technology Evaluation, Renewable Energy from Organics, Biofuels
- Organics Diversion and Collection

**Technology & Innovation**

- Evaluation of Organics Management Options: Composting Odor Control; Equipment Maintenance
- SPOTLIGHT SESSION: Reducing Food Waste and Increasing Recovery in Municipal, Regional, and State Programs
- SPOTLIGHT SESSION: The Waste & Recycling Industry Employment Outlook
- SPOTLIGHT SESSION: The Future of Organics in California
- Utilizing Tech & Data for Business Operations
- Utilizing Tech & Data for Business Operations
- SPOTLIGHT SESSION: Feet on the Street Atlanta—The Recycling Partnership’s Case Study on Citywide Contamination Reduction
- Residential and Multi-Residential Organics Diversion
- SPOTLIGHT SESSION: NothingWasted! War on Plastics
- Operations: A View from the Hauler
- SPOTLIGHT SESSION: NothingWasted! Plugging Into Opportunities in Refuse Fleet Electrification
- Grants and Subsidies for Organic Recycling

**Operations, Fleet & Safety**

- Conversion Technologies for Organics, Using Existing WWTP Infrastructure
- Complications of Cannabis
- Mechanical Biological Treatment (MBT), Gasification, and Other Conversion Technologies
- A Heavy Conversation: Addressing Truck Weight Issues
- NothingWasted! Visionary Perspectives on Sustainable Systems, Zero Waste, and Biofuels
- The Ins & Outs of Building Your Facility
- NothingWasted! Closing Plenary: Food Waste Paradigms
WasteExpo Exhibit Hall Hours:
- Tuesday, August 11: 10:00 AM – 5:00 PM
- Wednesday, August 12: 10:00 AM – 5:00 PM
- Thursday, August 13: 10:00 AM – 1:00 PM

Co-located Conferences:
- Waste360/Stifel Investor Summit: August 10, 7:30 AM – 5:30 PM
- Waste360 Business Leadership Forum: August 11, 11:30 AM – 4:00 PM
- Waste360 Healthcare Waste Conference: August 12, 8:00 AM – 6:00 PM

Check out WasteExpo’s Special Events at WasteExpo.com

Co-located Conferences:
- Waste360/Stifel Investor Summit: August 10, 7:30 AM – 5:30 PM (Separate registration required)
- Waste360 Business Leadership Forum: August 11, 11:30 AM – 4:00 PM (Separate registration required)
- Waste360 Healthcare Waste Conference: August 12, 8:00 AM – 5:00 PM (Separate registration required)
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.

Monday, August 10, 2020

**TECHNOLOGY & INNOVATION**

**9:00 AM – 10:15 AM**

**Sky-high Recycling: From Ground Level to 30,000 Feet**

Waste and waste diversion are becoming more and more a priority because of many environmental, financial, social, and logistical concerns. Airports are charged with the task of engaging many levels of stakeholders in their waste management plans. Airports also strive to develop a relationship with their haulers, thus incentivizing both parties to address waste effectively. This session will review various methods that can be used to increase stakeholder engagement and address the concerns for implementation of a successful waste diversion program by, highlighting the following strategies:

- Communicating needs and opportunities with waste and recycling haulers
- Obtaining data to create a baseline for a robust program
- Providing education and making policies for internal staff
- Evaluating infrastructure and collection tactics in order to increase participation from passengers and those responsible for collecting waste and recycling

**10:30 AM – 11:45 AM**

**Cart Technologies: From Critter Proofing to RFID**

We’ve come a long way with carts since they were first developed in the 1970s. From bear-proof containers to mini “smart city” data collection bins, the evolution of the trash cart continues to adapt to today’s needs, specifically when it comes to technology. How are these modern carts able to improve your bottom line? How can they improve your daily operations, help curb contamination, and improve your customer service? Attend this session to hear about some of the different cart programs available and what might work best for your operation.

**12:15 PM – 1:30 PM**

**Safety Solutions: Turning to Tech**

Using technology to improve safety is not a new concept. Automated trucks, in-cab cameras, artificial intelligence and robotics are all platforms that have been implemented and help prevent many potential injuries and fatalities. However, waste and recycling remains one of the most dangerous professions in the U.S., which is why new safety technologies continue to be developed every day. This session will address several new safety technologies all designed to help mitigate some of the risks facing our workers today.

**1:45 PM – 3:00 PM**

**Modern MRFS: How Technology is Shaping Today’s MRFS**

The recycling market is changing. New policies, new product packaging, new sustainability goals – which means redefining the standard materials recovery facility (MRF) to process a new waste stream. MRF operators are turning to upgrades, layout changes, robotics and even all-new facilities to combat today’s recycling challenges. Find out the latest technologies that are being implemented in MRFs, and what to expect in the coming years.

**3:15 PM – 4:30 PM**


Technology will solve all our problems. Maybe not all of them – but technology is changing recycling big, and sometimes unexpected ways. Keeping up with technology is becoming more important as changes occur more rapidly. Which technologies will be game changers, and which will fizzle out?

**OPERATIONS, FLEET & SAFETY**

**9:00 AM – 10:15 AM**

**Independent Haulers & The Role of Technology**

For large hauling companies, implementing technology is a no-brainer – It helps manage thousands of trucks to improve route optimization, safety, business operations, and more. But for smaller companies, is technology always a realistic and necessary option? Whether it’s due to the financial burden, lack of technology expertise and training, or insufficient manpower, there are several factors smaller, independent operations need to consider when exploring a new technology. Join this independent hauler panel as they discuss the pros and cons of implementing technology and whether it really makes sense for all operations, large or small.

**10:30 AM – 1:30 PM**

**A Balancing Act: Municipalities Talk Recycling Issues**

Municipalities are increasing their sustainability goals with attempts to move closer and closer to zero waste. At the same time, with recycling markets on the decline, they face additional financial constraints. So how do they find balance? Is achieving sustainability goals worth the added cost, or is it simply a numbers game? And who is the ultimate decision-maker – the consumer or the politicians? Join this panel of municipalities as they discuss how they work to strike an overall balance.

**12:15 PM – 1:30 PM**

**People’s Choice Session: Legislative Updates by Region**

Move over laws, ELD requirements, franchise agreements, plastic straw bans, the list goes on. Join this panel of experts to find out the latest updates on legislation by each region across the U.S. and what you should have on your radar for 2020 and beyond.

**1:45 PM – 3:00 PM**

**Glimpse into the Future: Unique Beginnings**

Giltz and glamour and waste and recycling often don’t go hand in hand. So, how is it that folks get into the waste and recycling industry? Is it a history of family generations already in the business, the potential of a steady industry and career or simply a bit of dumb luck and a dream? This session will share unique success stories on how careers are built in the waste industry.
ORGANICS MANAGEMENT

9:00 AM – 10:15 AM
Keynote Session: Progress on Food Waste Prevention, Reduction, & Recovery
Moderator: Dr. Stuart Buckner, Buckner Environmental Associates, LLC

  General Mills is one of the world’s largest food companies, so they know what consumers think about wasting food. Attendees will learn how the company helps consumers reduce food waste, which tactics they’ve learned make an impact, and how they are reaching out across the globe to increase impact.
- U.S. EPA Efforts to Reduce Food Waste, Peter Wright, Administrator for EPA’s Office of Land and Emergency Management. DC

10:30 AM – 12:00 PM
Anaerobic Digestion: Technologies, Feedstocks, Successful Case Studies
Moderator: Norma McDonald, Organic Waste Systems

- Organics Recycling from MSW and SSO with Centralized Mixed Waste Processing and Anaerobic Digestion. Yaniv Scherson, Managing Director, Western U.S. Anaergia CAN
- Why the Region of Durham is Investing $160,000,000 in Mixed Waste Processing and Anaerobic Digestion. Mirka Janusziewicz, The Regional Municipality of Durham, CAN
- Food Waste Only Digester in New England. Brian Paganini, VP, Quantum Biopower. CT
- Continuous Flow High Solids Anaerobic Digestion: The Urban AD Solution. Rolfe Philip, VP of Business Development and Sales, Thoeni North America Inc. CA

12:45 PM – 2:15 PM
Composting Technologies, Case Studies, BMP’s, Public-Private Partnerships
Moderator: Gary Bilbro, EcoSafe Zero Waste

- 10 Years in the Making: Case Study Describing the City of San Diego Food Waste Composting Project from Pilot to Full Scale and Beyond. Burton Ewart, City of San Diego. CA
- California’s New Organic Waste Processing Facility. Eric Herbert, CEO, Zero Waste Energy. CA
- Filling the Void: The Tools to Develop and Implement Powerful, Profitable Composting Partnerships. Mitch Kessler, President, Kessler Consulting, Inc. FL
- Covered ASP Best Management Practices. Waylon Pleasanton, Sustainable Generation, LLC. DE

2:30 PM – 3:45 PM
Anaerobic Digestion: Technology Evaluation, Renewable Energy from Organics, Biofuels
Moderator: George Savage, CalRecovery

- Anaerobic Digestion at Scale: When to know You’re Ready. Peter Ettinger, BioEnergy Development Co. MD
- A Developer’s View of Anaerobic Digestion Based Renewable Energy from Organics. Radhi Akki, CEO, Ag-Grid E. PA
- D3 & D5 RINs: Navigating the Co-Digestion Conundrum. Dave Baran, Quasar Energy Group. OH

4:00 PM – 5:30 PM
Organics Diversion and Collection
Moderator: Tate Moeller, Organix Solutions

- The Importance of Organic Waste Diversion. Jim Miller, JR Miller & Associates. CA
- Are Commercial Organics Diversion Mandates Working in California? Laith Ezet and Haley Kunert, HH&MM Consultants. CA
- Making Cents of SB 1383: CA’s 75% Organic Diversion Mandate. Veronica Pardo, California Refuse Recycling Council, CA

- Semi-Underground Organics Containment: The Next Frontier. Tim Corcoran, Molok North America Ltd

FOOD RECOVERY FORUM
Solutions to Food Waste Prevention, Reduction, & Recovery

9:00 AM – 10:15 AM
Keynote Session: Progress on Food Waste Prevention, Reduction, & Recovery
Moderator: Dr. Stuart Buckner, Buckner Environmental Associates, LLC

  General Mills is one of the world’s largest food companies, so they know what consumers think about wasting food. Attendees will learn how the company helps consumers reduce food waste, which tactics they’ve learned make an impact, and how they are reaching out across the globe to increase impact.
- U.S. EPA Efforts to Support Recycling and Reduce Food Waste, Peter Wright, Administrator for EPA’s Office of Land and Emergency Management. DC

10:30 AM – 12:00 PM
Advances in Wasted Food Policy and Practices; Using Measurement Tools to Reduce Food Waste and Drive Prevention
Moderator: Dr. Jon Deutsch, Drexel University

- Food Matters: Templates and Tools for Tackling Food Waste at the City Level. Darby Hoover, Senior Resource Specialist, Natural Resources Defense Council (NRDC) Food & Agric. Program. CA
- Moving Up the Hierarchy: Using Measurement and Data to Drive Behavior Change for Food Waste Prevention. Steven M. Finn, VP of Food Waste Prevention, LeanPath, Inc. OR
- Real World Examples of Prevention Using AI. Anna Vogel, Head of Operations, Winnow. IA

12:45 PM – 2:15 PM
Standardized Date Labels, Information Campaigns and Consumer Food Waste: Research and Response
ReFED (Rethink Food Waste Through Economics & Data) and Ohio State University conducted research evaluating how the introduction of the Food Marketing Institute and Grocery Manufacturers Association’s voluntary labeling standards affect consumer decisions and how this might inform decisions about date-labeling policies. Attendees will learn what this research yielded, and its salience in light of recent Federal legislative initiatives.
Moderator: Jackie Suggitt, Stakeholder Engagement Director, ReFED
Speakers:
  - Brian Roe, Van Buren Professor in the Department of Agricultural, Environmental and Development Economics at Ohio State University. OH
  - Frank Yiannis, Deputy Commissioner for Food Policy and Response, Food and Drug Administration. MD
  - Meghan Stasz, Senior Director, Sustainability, Grocery Manufacturers Association. VA

2:30 PM – 3:45 PM
Designing Solutions to Ensure Food Security – ReFED’s Nonprofit Food Recovery Accelerator
ReFED recently launched its Nonprofit Food Recovery Accelerator to catalyze ideas and inspire actions that lead to a doubling of healthy food available to the 40 million Americans facing food insecurity. Join Alexandria Coari, Capital and Innovation Director at ReFED, and members of the First Accelerator cohort to discuss how earned revenue models and technology solutions can be scaled to drive more impact.
Per- and polyfluoroalkyl substances (PFAS) have been produced in the U.S. since the 1940s and are used in a wide variety of products and applications. PFAS are persistent in the environment and resistant to environmental degradation. The potential bioaccumulation of PFAS is a concern, and EPA considers PFAS to be emerging contaminants. This super session will address all things PFAS, and will be split into two parts:

3:15 PM – 4:15 PM: Part I – Paper, Aluminum & Glass

• Food Waste Is a Design Flaw. Christina Mitchell Grace, CEO, Foodprint Group. NY
• Innovative Recovery Solutions

4:00 PM – 5:30 PM: Part II – Plastics

• How Many Zeros in Zero Waste: Benefits & Tradeoffs
  What does zero waste mean? Is it the best option for the environment? Where do greenhouse gas (GHG) emissions factor in? What about water usage? Air pollution? When is zero waste the best goal, and when should we consider alternatives?

1:45 PM – 3:00 PM Case Studies for Successful Recycling Programs

With the recycling market in flux and the demand for lower contamination rates on the rise, consumer awareness is more important than ever. Programs across the country have been redefined, suspended and even shuttered in the wake of new policies, which leads to more and more confusion amongst consumers on what can be recycled and how to mitigate waste. Hear successful case studies from several entities on their public programs that increased recycling awareness and diversion rates and helped lower waste generation overall.

9:00 AM – 10:15 AM C&D: Tearing It Down & Building It Up

Construction and demolition (C&D) debris represents a huge amount of material — more than municipal solid waste (MSW)!

10:30 AM – 11:45 AM What’s New with Mixed Waste?

With the major changes that have occurred in recycling taking all the attention, mixed waste processing has been moving forward at multiple facilities around the country. What?! Catch up on what’s been going on.

12:15 PM – 1:30 PM How Many Zeros in Zero Waste: Benefits & Tradeoffs

What does zero waste mean? Is it the best option for the environment? Where do greenhouse gas (GHG) emissions factor in? What about water usage? Air pollution? When is zero waste the best goal, and when should we consider alternatives?

3:15 PM – 5:30 PM PFAS Super Session: What is PFAS & How Do We Treat It?

Per- and polyfluoroalkyl substances (PFAS) have been produced in the U.S. since the 1940s and are used in a wide variety of products and applications. PFAS are persistent in the environment and resistant to environmental degradation. The potential bioaccumulation of PFAS is a concern, and EPA considers PFAS to be emerging contaminants. This super session will address all things PFAS, and will be split into two parts:

3:15 PM – 4:15 PM: Part I – Laying the Foundation. Part I will set the stage for PFAS, discuss background information, historical legal challenges, and sampling and analytical challenges and opportunities.

4:30 PM – 5:30 PM: Part II – Treatment Options: Part II will focus specifically on treatment options – including underground injection, destruction and separation.
Tuesday, August 11, 2020

Free & Open to All WasteExpo Attendees

10:15 AM – 11:00 AM
CEO Interview: One-on-one Chat with Worthing Jackman, President & CEO, Waste Connections

Join Worthing Jackman President and CEO of Waste Connections, for a fireside chat with Darrell Smith, President and CEO of NWRA. The two will discuss leadership, business insights, industry issues and much more. Jackman, who has been a part of Waste Connections since its inception in 1997 as its investment banker, was named CEO of the company in July 2019. Attendees will hear first-hand from Jackman about his rise to CEO of the third-largest waste management company in the U.S., where we stand as an industry and where we might be headed in the future.

10:30 AM – 11:50 AM
Reducing Food Waste and Increasing Recovery in Municipal, Regional, and State Programs


• Food Recycling and Rescue – Los Angeles County’s Three-Pronged Approach. Suk Chong, Senior Civil Engineer, Los Angeles County Public Works and Michelle Leonard, Vice President, SCS Engineers
• Accelerate Food Waste Reduction Through Collaboration. Holly Stirmkorb, Senior Solid Waste Planner, Metro. OR
• Eating the Food Scraps Elephant: How Madison, WI is Tackling the Problem of Food Scraps a Bite at a Time through Prevention and Diversion. Bryan Johnson, Recycling Coordinator, Stacie Reece, Sustainability Program Coordinator, and George Reistad, Food Policy Director, City of Madison, and John Welch, Director Waste & Renewables, Dane County. WI
• Santa Clara County Community Based Social Marketing (CBSM) of Food Waste Reduction Program and Food Recovery Efforts Project. Lisa Coelho, SCS Engineers, CA

11:10 AM – 12:30 PM
The Waste & Recycling Industry Employment Outlook

The National Waste & Recycling Association Women’s Council leverages unique access to bring together the industry’s most influential human resource leaders. Hear their collective knowledge and learn what challenges and opportunities may arise on issues such as talent acquisition, workforce development and employee retention. Attendees will have the chance to engage with this expert panel.

Speakers: Eric Bostian – Rumpke Waste Services; Genevieve Dombrowski – Republic Services; Carrie Miller – WCA America; Melkeya McDuffie – Waste Management; Amanda Mickelson – Oshkosh Corporation (McNeilus)

1:45 PM – 3:15 PM
Feet on the Street Atlanta—The Recycling Partnership’s Case Study on Citywide Contamination Reduction

Feet on the Street was originally launched as a pilot program by The Recycling Partnership (TRP) in part to answer China’s National Sword policies. It now serves as a foundational model for TRP’s contamination-fighting methods implemented in communities across the country.

Join the stakeholders involved in Feet on the Street (FOTS) – Atlanta and learn about the program’s inception, execution and success. Hear about their role in FOTS, challenges faced, lessons learned and initial results from the program’s first year.

You’ll see never-before-shared data about the program, including: updated contamination rates after tagging Atlanta’s 98,000 single-family homes; multicultural communications best practices; capture rate studies from 15-plus multi-family properties; and more.

Walk away with the inspiration and data to make real changes or improvements in your own cities or businesses.

Speakers: Cody Marshall, Chief Community Strategy Officer, The Recycling Partnership; Cecilia Shutters, Recycling Technical Advisor – Atlanta, The Recycling Partnership; Kanika Greenlee, Executive Director, Keep Atlanta Beautiful Commission at city of Atlanta; Sustainability Representatives from The Coca-Cola Foundation, Multi-Family Housing, Atlanta and University Housing, Atlanta

3:30 PM – 5:00 PM
Plugging Into Opportunities in Refuse Fleet Electrification

Add another level to the technology tsunami that is propelling the waste industry into its brave new future. Alongside artificial intelligence and robotics, fleet electrification to the list as private haulers, municipalities (and their blended partnerships) embrace the idea of electrified refuse vehicles.

This session will look at the opportunities and the challenges that come with an electrified refuse vehicle – battery life, power management, driver training and awareness are all part of this new domain along with the benefits of emissionless, quieter vehicles and possibly less rigorous maintenance routines. Hear from organizations that currently have electric vehicles out in the real world, what they are experiencing and what new trials will be released in 2020.
ORGANICS MANAGEMENT

9:00 AM – 10:15 AM
Evaluation of Organics Management Options; Composting Odor Control; Equipment Maintenance
Moderator: George Savage, CalRecovery
• Comparison of Organic Waste Management Options in Terms of Air Quality and GHG Impacts. Patrick Sullivan and Raymond Huff, SCS Engineers. CA
• Reorganizing and Reforming Composting: How to eliminate compost facility odor by flipping the composting process inside out and upside down. Geoff Hill, Engineered Compost Systems. WA
• Large Compost Cultivating: Odor Management. Robert Bal- lantyne, RWI Enhanced Evaporation. CO
• The Importance of Maintenance: Four Key Strategies to Sustain Lasting Improvements. Ted Dirkx, Application Specialist, Veermear Corporation. IA

10:30 AM – 11:50 AM
AD and Composting: Integrated Solutions, Pre- and Post-Treatment Options
Moderator: Eric Herbert, Zero Waste Energy
• To Compost or Not to Compost? Luc De Baere1*, N. McDon- ald2*, Bruno Matthews1*, Organic Waste Systems (OWS) 1 Belgium; 2 Ohio
• Mixing it Up: An Analysis of Switching from Mechanical to Hydraulic Mixing. Alan Johnson, VP, Quasar Energy Group
• Benefits Achieved Worldwide by Bio-drying Waste Fractions Derived from Mixed MSW for Production of Quality RDF. Luigi Castelli, BioMRF Technologies, Inc. CA
• Integrated Eco-parks - a sustainable solution for upcycling, recycling and recovery of organic waste, MRFs residues and municipal waste. Paolo Carollo, Entsorga Group. NC and Bill Kosco, Eisenmann Corp.

12:55 PM – 2:05 PM
Panel Discussion on The Future of Organics in California
• Learn about California’s SB 1383 implementation that will require 75% diversion of organic waste from landfills by 2025. Hear from industry policy leaders and composters in an interactive panel discussion regarding collection, contamination, permitting, and markets of transforming organic wastes into compost and energy products. This lively discussion will include questions from the audience on how to develop over 100 facilities at a cost of $2 to $3 billion.
Panelists:
– Evan Edgar, Principal, Edgar & Associates, CA (Moderator)
– Bill Camarillo, President, Agronim, CA
– Evan Edgar, Principal, Edgar & Associates, CA (Moderator)
– Tracie Onstad Bills, Director, SCS Engineers, CA

2:15 PM – 3:30 PM
Residential and Multi-Residential Organics Diversion
Moderator: Gary Bilbro, EcoSafe Zero Waste, NC
– Easy as 1, 2, 3. Success stories from Coast to Coast, San Francisco to Bowie Md. Diverting thousands of tons of organic waste from landfills.
• How to Start and Maintain a Multi-Residential Program: Keys to training each participant and working with housing and municipal partners for a successful program. Daniel Redick, EcoSafe Zero Waste, OR
• Successful Residential and Multi-Res Programs for Organics Diversion Through Multiple Means of Organics Collection. Alexia Kielty, City of San Francisco, CA

3:45 PM – 4:45 PM
Grants and Subsidies for Organic Recycling
Speakers: Bruce and Janet Eversly, Energy Improvement Matters (EIM, LLC), IN
• Topics covered include:
– Grants and subsidies that offer the best return on investment
– Basics of the USDA’s REAP program, DOE’s funding, Treasury tax credits.
– Methods to reduce your project’s first costs.

10:30 AM – 11:50 AM
Reducing Food Waste and Increasing Recovery in Municipal, Regional, and State Programs (Open to All WasteExpo Attendees)
See full description on page 13.

12:55 PM – 2:05 PM
Preventing Food Waste and Ending Hunger in the U.S.: Award Winners of Kroger’s Zero Hunger | Zero Waste Foundation’s Innovation Fund
• The Kroger Co. Zero Hunger | Zero Waste Foundation has committed up to $1 million in grants to engage with innovators to develop ideas and scalable solutions to prevent food waste and end hunger in the U.S. Join Sunny Reelhorn Parr, Head of The Kroger Co. Zero Hunger | Zero Waste Foundation and Award winners who will discuss their projects and how they will assist in the goal to prevent food waste and end hunger in the U.S.

2:15 PM – 3:30 PM
Leading by Example: Food Recovery Best Practices with Winners of the General Mills Food Recovery Champions Program
• General Mills has announced the 20 winners of its Food Recovery Champions program that awarded $1 million in grants to expand surplus food recovery in the U.S. and Canada for greater social and environmental impact. Come hear this panel of food recovery innovators from across the U.S. who will share details about their programs and how they are leveraging their grants from General Mills to achieve greater levels of food recovery.
Moderator: Lee Anderson, Director of Global Issues Management and Public Affairs, General Mills
• Fresh Produce Recovery. Rick Nahmis, Founder and Executive Director, Food Forward, CA
• Fresh Seafood Recovery. Jim Harmon, Executive Director, SeaShare, WA
• Recovery at Retail and Foodservice Channels. Leah Lizarondo, Founder and CEO of 412 Food Rescue, PA
• Prepared Food Recovery. Barbara Bronstein, Founder and President, Second Servings of Houston, TX

3:45 PM – 4:45 PM
The Upcycled Food Association: The New Voice of an Industry, Promoting Upcycling Nationwide
Speakers:
– Turner Wyatt – Co-Founder and CEO, Upcycled Food Association
– Jon Deutsch Ph.D. - Professor of Culinary Arts and Food Science, Drexel University
– Mike Orachewsky - Co-Founder, TBJ Gourmet
Joining Forces: Tackling the Current Recycling System Across Industries

With only 8.4% of plastic currently being recycled, consumer packaged goods (CPG) companies, packaging suppliers, and the waste and recycling industry are facing immense pressure from consumers to figure out a better way to do business. Nearly 8 in 10 Americans believe a solution to the packaging waste crisis is worthy of the same societal importance as the Apollo space project or creating a national highway system. This is our opportunity to transform the way industries engage; working together to keep valuable materials circulating through the economy by way of an improved recycling system. And the only way to do so is by joining forces across the entire supply chain. During this discussion, leaders from the CPG industry, packaging suppliers, and the waste and recycling industry will provide perspective on their section of the supply chain’s responsibility in developing a national recycling system to combat the recycling crisis in America.

History of Recycling – Live

In the coming years, some of the industry’s brightest and most-experienced colleagues will be retiring. This session seeks to capture their “tribal” wisdom on the history of recycling and, most importantly, what we can learn from it today. Join this session to find out the true meaning of recycling, what successful recycling systems have had in common, and how we can apply historical knowledge to our current recycling industry. Hear a vibrant introduction of the major twists and turns in recycling’s evolution over centuries and particularly the last few decades, as well a current overview of recycling in the U.S. in 2020. This will be followed by a lively panel who will answer questions and share insight on:

- Resilience—Although recycling feels in peril, we are just experiencing another shift in the system, where we could create a stronger recycling industry, or at least one better evolved to today’s environmental, economic, political, and social climate.
- Tact—Tactical lessons from our recycling history that could apply to today.
- History—How external forces have shaped our views of recycling and how we can anticipate the external forces impacting our recycling system today.

The Aftermath Continues: China Updates

It’s been several years, yet the fallout from China’s import restrictions continues. Find out the latest status of recycling markets, and the ongoing repercussions recycling programs face. Hear from experts on issues such as:

- China still plans on discontinuing imports
- Import permits are limited
- #12 double-sorted retail old corrugated cardboard (OCC) price drops
- Numerous companies are not exporting any plastic
- Blended value for residential recycling continues to find new lows
- Contracts and contamination are still issues, etc.

Rising Leaders Talk Trash

Join this panel of next-generation rising leaders to hear their perspective on where the waste industry is headed. These Waste360 40 Under 40 award winners will discuss the biggest challenges and opportunities facing the waste industry, how the upcoming workforce differs from previous generations, how they see the industry changing and more.

Servant Leadership: How to Build a Strong Culture in Your Organization

Servant leadership is something that is often talked about, but not always achieved. The concept of a servant leader is that they “share” power and put the needs of others first, focusing primarily on the growth and wellbeing of their people and communities rather than just leading from the “top”. So, what does a servant leadership culture mean for a company? What are the benefits? Hear from two industry leaders cultivating servant leadership cultures in their respective organizations.

Wednesday, August 12, 2020

Free & Open to All WasteExpo Attendees

10:30 AM – 11:45 AM
Ryan Hickman – Ten-year-old Recycling Superstar Represents the Future of Recycling

Ryan Hickman details how his passion for recycling grew from a fun project with dad, to launching a young entrepreneur and media spotlight, to recognition as a youth environmentalist. Ryan, a young man with a mission to do much more will take us through this transformation and share some of his amazing experiences. Hear firsthand how he’s been able to use recycling awareness to support his environmental cleanup events and to support marine rescue centers. Ryan will reinvigorate and inspire us to make the world a better place and show us how recycling is one effort that’s making a real difference.

Speaker: Ryan Hickman, CNN Young Wonder Award recipient and one of MSN’s top kids changing the world

Adam Minter – Stuff: The Hidden Borderland of Waste and Recycling

In the early 2000s, Adam Minter began exploring the hidden world of globalized recycling, producing groundbreaking reports from China, India, Ghana, and other countries. Then, in the mid-2000s, he abruptly shifted focus to the world of thrift stores and secondhand goods. In his talk, Minter will explain the circumstances that led him to this shift and show why the growing tide of “single-use stuff”—from fashion to furniture—should concern waste and recycling professionals as much, if not more, than better-known problems like single-use plastics. Using his signature method of narrative storytelling, Minter will merge his personal experiences and observations with globalizing trends to illuminate this emerging frontier in recycling and waste management.

1:45 PM – 3:00 PM
Cybersecurity Concerns: Managing Data in Waste
Today’s most valuable currency isn’t the dollar, or the euro, or any form of money—it’s data. Every technology we use—from personal to business—collects data, which is why it’s more important than ever to keep it safe. From a growing e-waste stream to residential and private collection, the concern for cybersecurity is growing in the waste industry. Find out why securing data—both private and company—is crucial for protecting your assets, reputation and overall business success.

OPERATIONS, FLEET & SAFETY
9:00 AM – 10:15 AM
Complications of Cannabis
With more than 1,500 marijuana-related bills introduced in state legislatures in 2019, there is no denial that cannabis is a growing issue. And with the rise of hemp and CBD products on the market, it will only continue to grow. There will be inevitable implications on the waste and recycling industry. How is the disposal of cannabis waste managed? What are the disposal and documentation requirements? How do these requirements vary by state? What are the federal considerations? What role does packaging play in managing this waste? If packaging requires the use of plastic, how do you prevent cross-contamination (the cannabis contaminating the plastic, and the plastic contaminating the cannabis)? Gain insight on all things cannabis waste during this contemporary session.

12:15 PM – 1:30 PM
A Heavy Conversation: Addressing Truck Weight Issues
Understanding truck weight, load capacity and road jurisdictions are vital in planning routes. Our industry deals with a variety of seasonal permits, overweight permits and load permits. Quite often, trash trucks are to blame for road wear-and-tear issues. But is that really the case? This session will provide a breakdown of types of trucks, weight capacity and road and bridge laws that impact moving America’s discards.

1:45 PM – 3:00 PM
The Ins & Outs of Building Your Facility
Whether it’s a transfer station or material recovery facility (MRF), there are a lot of components that go into building your facility. It takes planners, architects and engineers to develop an accurate site plan—from the location to the facility, to the material of the floors, to the type of technology being installed. But how do you know what the best options are for your facility? Hear from experts on best practices for designing your facility, including creating more durable floors, permitting and regulations in today’s climate, and incorporating technology useful for today’s stream.

ORGANICS MANAGEMENT
9:00 AM – 10:15 AM
Conversion Technologies for Organics, Using Existing WWTP Infrastructure
Moderator: Peter Klach, Shapiro Enterprises
• The Opportunity to Convert Challenging Waste Streams into valuable Outputs with Pyrolysis. Andrew White, CEO, Char Technologies. CAN
• Urban Biocycle Concept for Municipal Organics: From Wastewater Treatment to Resource Recovery. Joerg Blischke, Senior Process and Organics Management Specialist, Black & Veatch Corporation. CA
• Developing A Landfill RNG Project, Lessons Learned at The Dane County Landfill. Nadeem Afghan, BIOFerm Energy Systems, WI
• Food Scrap Slurry Characteristics and Value. Casey Furlong, Emerson

10:25 AM – 11:40 AM
Mechanical Biological Treatment (MBT), Gasification, and Other Conversion Technologies
Moderator: George Savage, CalRecycle
• FastOx® Gasification: Profitably Achieve 100% Recycling. Mike Hart, CEO, Sierra Energy. CA
• Waste to Biogas, What is Next? Xu Fei (Philip) Wu, SusWork Inc. CAN
• Is a Successful MBT Technology a Viable Alternative to Landfilling and Incineration in North America? Glen Tobiaison, Quality and Environmental Management, Zweckverband Abfallbehandlung Kahlenberg (ZAK), Germany
• Bio-slurry Injection: an efficient method to divert organic waste from landfill. Omar Abou-Sayed, Yashesh Panchal, and Ibrahim Mohamed. Advantek Waste Management Services, TX

12:15 PM – 1:30 PM
Upcycling Organic Waste, Biodegradability and Bioaccumulation of Polymers, Circular Economy as a Strategic Mission
Moderator: Gary Bilbro, EcoSafe Zero Waste
• Upcycling Organic Waste into PHA Biodegradable Plastics. Abdul Khogali, COO, Luna Yu CEO, and Robert Celic, Genecis Bioindustries Inc. ON
• Aerobic and Anaerobic Biodegradability of Biopolymers. László Aleksza, CEO, ProfiKomp Könyezettechnika Zrt., L., and Zsuzsanna Üveges, Szent István University, Hungary
• Moving to a Circular Economy: BPI’s New Strategic Mission. Rhodes Yepsen, Executive Director, Biodegradable Products Institute
• The Bioaccumulation of Plastic Waste is a Global Challenge. Is compostable packaging the solution? Gary Robinson, CEO, Synaptic Packaging, LLC. CA

4:10 PM – 5:00 PM
Closing Plenary: Food Waste Paradigms
• Food Recovery is Not Enough to Impact Hunger. Leah Lizaron-do, 412 Rescue. MA
• There’s More Than Enough: Minimizing Waste, Maximizing Savings. Komal Ahmad, CEO, CDPAA. CA

FIND YOUR BEST OPTIONS FOR TODAY’S STREAM
Program Manager, San Diego Food System Alliance. CA
• Prioritization of Wasted Food Solutions at the City-level.
  Dave Didonato, Sustainability Specialist, City of Chula Vista. CA
• Quantifying Behavior Change as a Result of Consumer Education – data and lessons from Save The Food San Diego EcoChallenge, Sarah Feteih, Outreach Coordinator, San Diego Food System Alliance, CA

10:25 AM – 11:40 AM
Technology + Civic Engagement + Partnerships: Launching and Scaling Food Recovery
Moderator: Leah Lizarondo, 412 Food Rescue
Speakers:
• Steve Dietz, Food Donation Connection. TN
  Aaron Tolson, Development Director, Prince William Food Rescue. VA
• Michelle Sandidge, Chief Communications Officer, Housing Authority of the City of Pittsburgh. PA
  Aubrey Alvarez, Executive Director, Eat Greater Des Moines

12:15 PM – 1:30 PM
Uncovering the Complexities of the Food Donation System
Moderator: Hannah Cather, Food Recovery Network
• Complexities of Prepared Food Donation. Holly Stirnkorb, Senior Solid Waste Planner, Metro. OR
• Life Cycle Assessment of Edible Food Rescue. Sanne Stienstra, Material Recovery Specialist, Oregon DEQ
• Supporting Food Rescue Through Partnerships. Katie Pearson, Strategic Sourcing Manager, Oregon Food Bank. OR
• From the Ground Up: Establishing A Food Recovery Community. Carol Shattuck, CEO and Melissa Spiesman, VP, Food Rescue US. CT

1:40 PM – 2:40 PM
Capturing Event Food Waste to Maximize Food Waste Prevention, Donation and Diversion
This panel will review how different departments within a stadium interact with food waste and how collabora-
tion can improve waste prevention, donation, logistics, communication and processing. The panel will also discuss how business initiatives are driving increased organic waste diversion and reuse within stadium and event manage-
ment. Attendees will learn about innovations in food waste processing that repurpose waste into raw materials and how stadiums can ensure uncontaminated waste is delivered to
these facilities.
Moderator: Greg Lettieri, CEO, Recycle Track Systems
Panelists:
• William Cosgarea, Sustainability Specialist, Javits Center. NY
  Matthew Jozwiak, Founder and Executive Director, Rethink Food. NY
• Jessica Tomaz, Sustainability Manager, Recycle Track Systems. NY

2:50 PM – 4:00 PM
Small Scale & Scalable Food Waste Recycling Technologies for Food Waste Generators
Moderator: Tate Moeller, Organix Solutions
• Transforming Food Waste for The Benefit of The Environment. Jason Hoen, Global Sales and Marketing Director, Green Eco Technologies
• On-Site Food Waste Decomposition/Reduction Mechanisms. Jaclyn Hill and Ed Sawchuk, Patriot Organics LLC. NY
• Urban Food Scraps as Feed for Black Soldier Fly Farm. Alexis Lin, Founder, Food Cycle. NY

2:50 PM – 4:00 PM
Food Rescue BMP’s; Food Waste and Zero Waste Strategies in Schools
Moderator: BethAnn Taylor, Taylor Environmental
• Food Bank Partnerships and Food Waste Prevention. Emily Slazer, Food Sourcing Manager, Second Harvest Food Bank
• Food Recovery Network: Creating a New Generation of Leadership Fighting Food Waste and Hunger. Hannah Cather, Program Manager and Dominique McMillan, Program & Outreach Fellow, Food Recovery Network
• A Tale of Two Schools: How the same food waste interven-
tion training changed food waste in two school districts. Jennifer Shukaitis and Sara Elnakib. Rutgers Cooperative Extension. NJ
• Saint Paul Public Schools Zero Waste Strategies & Tactics for Breakfast to Go Program. Jodi Taitt, Founder, EcoCon-
silium. MN

4:10 PM – 5:00 PM
Closing Plenary: Food Waste Paradigms
Moderator: Darby Hoover, NRDC
• Food Recovery is Not Enough to Impact Hunger. Leah Lizarondo, 412 Rescue. MA
• There’s More Than Enough: Minimizing Waste, Maximizing Savings. Komal Ahmed, CEO, CDPIA. CA

9:00 AM – 10:15 AM
For or Against? Debating Recycling
For years, recycling has seemed like a no-brainer. It’s a way to reduce litter and waste and to recover valuable materials, while reducing greenhouse gas emissions. But, with increasing processing costs, stricter contamination requirements, and a changing waste stream, does recycling really make sense? Join this lively debate on the pros and cons of recy-
cling and find out which side you end up on.

12:15 PM – 1:30 PM
Textile Recovery: From Reuse, Renewal and Recommerce to Recycling
Textile waste has experienced unprecedented growth over the past 20 years. It is now the fastest-growing material cat-
cory in the municipal solid waste stream, having increased 78 percent by weight since 2000. This session discusses the nature and impacts of that growth, posits a systems view on solutions and explores emerging business models aimed at extending the value life of a garment and advancing fiber-to-
fiber recycling.

1:45 PM – 3:00 PM
Regulations Upon Regulations—Landfill Gas Update
NSPS WWW or XXX, EG Cc or Cf, NESHAP AAAA, Subpart GGG

9:00 AM – 10:15 AM
Breaking Down Business Trends
The saying goes, “In life, the only constant is change,” and the waste industry is no different. Mergers and acquisitions, market downturns, technology investments—what are latest
trends in the business of waste? Hear from experts on the hot-button issues of 2020 and what we can expect over the
next 12 months.

12:15 PM – 1:30 PM
Business Transformational Processes & How They Apply to a 2020 (and Beyond) Workforce
Many fleet managers face real world issues like increased turnover (due to competition with other market segments), increased training focus (both internally and externally) via new training paradigms like learning management systems,
better mechanics training (that is truly retainable), product design that enhances employee retention while reducing cab clutter and complexity, and so much more. Join this panel to hear what processes you can apply to help mitigate these issues and lead to a stronger workforce.

1:45 PM – 3:00 PM
Retaining Employees Though Intentional Organizational Culture
Recruiting and retaining top talent is a priority, especially in the solid-waste industry where specialized skills in engineering, environmental sciences and operations are required. The responsibility of managing waste results in a focus on land and equipment. Metro Waste Authority operates the largest landfill in Iowa and has 74 employees. With a heavy focus on the technical, the organization had lost sight of the soft skills required to build relationships and retain employees. Corporate culture is what drives an organization, and the culture this agency had was leading it in the wrong direction. A team of employees intentionally created a culture of positivity, teamwork, innovation, integrity, and leadership. Today, managers hire for culture and evaluate on the organization’s values. In sharing this journey, solid waste managers will gain an understanding of how the right culture can drive change and lead to higher employee retention, saving both time and money.

Thursday, August 13, 2020

WORKSHOPS
All workshops held: Thursday, May 7, 8:30 AM – 12:30 PM
Additional fees apply

Introduction to Zero Waste Certified Training
You’ll 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 to 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.

Separate registration required to attend – $125

Speaker:
Richard Anthony
Principal
Richard Anthony Associates
VP of Zero Waste USA and Chair of the Zero Waste International Alliance

8:30 AM – 12:30 PM
Food Waste and Organics Diversion for All Waste Generators: Commercial, Residential, and Institutional
This workshop will guide the attendee through a complete understanding of organics diversion from landfill.
Attendees will discuss:
• The types of waste that can be diverted
• The processes for separation
• Collection of materials
• What happens to the material when it reaches its destination
• How to start an organics diversion program
• Utilizing tools and programs for successful diversion
All these topics and many more will be covered in this all-inclusive workshop on the A-Z’s of Organics Diversion.
Separate registration required to attend – $125

Speaker:
Gary Bilbro
Regional Manager
EcoSafe® Zero Waste

8:30 AM – 12:30 PM
Building A Foundational Safety Program
It’s no secret that the waste industry remains in the top 10 most fatal jobs in the country – which is why safety is one of the key concerns for waste & recycling companies – big, small public or private. So, what can we do to mitigate these complex safety issues? Build a solid foundation.

Implementing advanced technology won’t make you safer if you don’t have a solid foundation set in your safety program. Find out what steps you can take to create, enhance, and redefine your program – to go beyond the monthly safety meeting. This workshop will give you real-world insights from safety experts that you can take back to your company and implement immediately - whether this is your first safety program or your 10th.

Separate registration required to attend – $175 NWRA Member Attendee; $200 NWRA Non-Member or APWA/SWANA Member Attendee

Speakers: NWRA will lead this workshop; speakers to be announced.

8:30 AM – 12:30 PM
Crunching the Numbers: Understanding the Data and Realities in Materials Recovery
Should we “recycle everything, all the time” or “when in doubt, throw it out”? These are popular and frequently asked questions in our society.
Here are just some of the questions we’ll explore together in this workshop:
• How much material is actually recycled every year—and how do we measure it?
• What is reality when it comes to recycling?
• What are the measurable benefits of recycling? And how do we know?
• Are there situations when recycling may be bad?

Join us as we take a provocative and interactive look at recycling in an attempt to address some of these questions. Using current science and data, various topics will be explored to discuss what we know about recycling, what we can do to measure better and what insights are hiding in the data.

The time will be engaging as the audience will be asked to participate in several visual and interactive demonstrations to reinforce the information presented.

Separate registration required to attend – $125

Speakers:
Bryan Staley
President and CEO
Environmental Research & Education Foundation (EREF)
Additional panelists to be named.
WasteExpo 2020 is waiting for YOU!
Join the waste, recycling and organics industry's biggest event to get inspired and find the answers you need. Get ready to experience:

- **More education** with an interactive Conference Program featuring the industry's brightest minds and leaders
- **More innovation** on and off the WasteExpo Exhibit Hall Show Floor with 600+ exhibitors that can help you find the latest solutions you need to do your job better
- **More networking opportunities** allow you to meet new customers and prospects and reconnect with long-time colleagues. With 14,500+ participants from across the street and round the world, there’s no other event that brings the waste, recycling and organics community together like WasteExpo.
- **And more!**

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