

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](http://wasteexpo.com)



an event by

**Waste360**™

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## 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**

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## CO-LOCATED CONFERENCES

### Waste (360) Investor Summit

Monday, August 10, 2020  
7:30AM – 5:30PM  
Ernest N. Morial Convention Center

Sponsored by 

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.

**Please note that additional registration is required for this conference. Register at [WasteExpo.com](https://www.wasteexpo.com)**

### Waste (360) Business Leadership Forum

Tuesday, August 11, 2020  
11:30AM – 4:00PM  
Ernest N. Morial Convention Center

Hosted by  


Supporting Sponsors



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](https://www.wasteexpo.com).**

### Waste (360) Healthcare Waste Conference

Tuesday, August 11, 2020 – Wednesday, August 12, 2020  
Ernest N. Morial Convention Center

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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](https://www.healthcarewasteconf.com).**

## 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



Women's Council

**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.

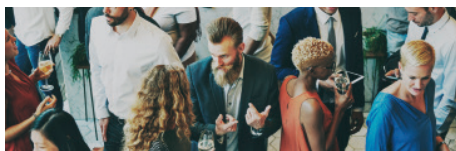


### EREF Charitable Auction & Silent Auction

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 Sourcwell. 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.



# 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.

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

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

<b>3rd EYE</b> 4 State Trucks <b>A.R.M. Solutions</b> <b>AquaTools, Inc.</b> <b>Accent Wire - Tie</b> Action Equipment Co. Inc. <b>AEI</b> Aero Industries Agility Fuel Solutions Air and Water Systems Air Filter Blaster <b>AIR-WEIGH</b> <b>Aljon by C&amp;C Manufacturing LLC</b> Alkon Corporation Always On Top Marketing <b>AMCS Group</b> Amerex Corporation <b>American Baler Company</b> <b>AMP Robotics</b> <b>Amproll Hooklifts - Marrel Corp.</b> Anaea AQUA BLAST CORP <b>ARI-HETRA</b> <b>Arkon Mounts</b> Ascentium Capital Atomic Transport <b>Bakers Waste Equipment (BWE)</b> Balemaster Bandit Industries, Inc. Bateman Manufacturing <b>BENLEE - Premier Truck Sales &amp; Rentals, Inc.</b> Benzaco Scientific, Inc. Better Engineering <b>Big Truck Rental</b> BJJ/LOK-A-BIN Blankenship Equipment Blaxtair Inc BMH Technology Oy Finland <b>BMO Transportation Finance</b> BMT Europe BV BOVIN Evolution Inc. <b>Bondtech Corporation</b> <b>BOTTARO - Baling Wire</b> <b>BRANSYS</b> <b>Bridgeport Manufacturing, Inc.</b> <b>Bridgestone</b> <b>Brigade Electronics Inc</b> Britespan Building Systems Inc. Brown Bear Corporation B-TEK Scales Bucks Fabricating Buffalo Turbine <b>Bulk Handling Systems (BHS)</b> <b>Busch Systems</b> <b>BYD</b> C2Logix, Inc. Canny Hydraulics Inc. Cardinal Scale Carlson Software Cascade Cart Solutions Cascadia Consulting Group CASE Construction <b>Castrol</b> <b>Caterpillar</b> <b>CBi and Ecotec: Terex Brands</b> CDRA/C&D World Chevron Lubricants Chicago Pneumatic <b>Civil &amp; Environmental Consultants, Inc.</b> Cleanfix North America Ltd. <b>Cleaning Systems, Inc.</b> <b>CleanWay Environmental Partners, Inc.</b> ClearSpan Fabric Structures CM Shredders CMD CNG Energy Solutions Columbia Industrial Products Columbia Industries, Inc. <b>Commercial Credit Group Inc.</b> Commercial Vehicle Group <b>Container Components</b> Converus Core Computing Solutions, Inc. Coretex <b>CP Group</b> CPM Di Piu Systems <b>Cram-A-Lot/JV Manufacturing</b> <b>Crane Carrier Company</b> Creative Information Systems Creative Safety Supply <b>CRO Software Solutions</b> CTP Solutions <b>Cummins Inc.</b>	Cummins Westport <b>Curbtender, Inc.</b> Custom Hoists, Inc. <b>Custom Truck One Source</b> CW Machine Worx Dafo U.S. DataProse Billing Solutions DEL Hydraulics Delttek <b>Dennis Eagle Ltd.</b> Diamond Z <b>Diamondback Products, Inc.</b> <b>Diesel Force</b> <b>Dings Co. Magnetic Group</b> <b>Discount Waste, Inc.</b> DJ Products, Inc. <b>D-Lux Screen Printing</b> <b>powering WasteStickers.com</b> Donovan <b>Dossier Systems</b> DuBois Chemicals Dur-a-Guard <b>East Manufacturing Corp.</b> Eastern Pneumatics & Hydraulics, Inc. Ecolo Odor Control Technologies Economic Development Partnership of North Carolina EcoSafe Zero Waste <b>ECOVERSE</b> Edge Innovate EISENMANN Corporation Elder Rubber Inc. Emery Winslow Scale Company EMP <b>End of Waste Foundation</b> Endura Paint Enterprise Baler CO Enviromotive Inc. Environmental Solutions Group- Heil Environmental Environmental Specialties Int., Inc. (ESI) Eriez Magnetics <b>ET Design I Build</b> Euclid Chemical Company Evergreen National Internnity Co. <b>Ex-Cell Kaiser LLC</b> <b>E-Z Pack Manufacturing</b> Fairbanks Scales Fimor North America <b>Fire Rover</b> Flaming River Industries, Inc. <b>FleetGuide</b> <b>Ford Commercial Vehicles</b> <b>Freightliner Trucks</b> Fuchs Fuel Masters, LLC Fuel Ox Fujimi Luxury Massage Chairs GAIN Clean Fuel <b>Galfab</b> General Truck Parts Genesis Attachments <b>Gient Heating Industry Co., Ltd.</b> Glacier Ozone <b>Global Sensor Systems Inc.</b> <b>Golder</b> <b>Goodyear</b> <b>Green Eco Technologies</b> Green Machine Gregory Container Inc Grinder Wear Parts (formerly The Trading Company) & Apollo Equipment <b>Groeneveld Lubrication Solutions</b> Guard-All Building Solutions <b>Gusella Bakker</b> <b>Hallco Industries Inc.</b> Harps Tarps <b>Harris</b> Havis, Inc. <b>Heavy Motions Inc.</b> <b>Hedstrom Environmental</b> <b>Hendrickson</b> Hiab USA/Multilift Hino Trucks Hitachi Zosen Inova USA LLC HODGE PRODUCTS, INC. Housby HSM of America HUB Industrial Supply Hustler Conveyor Co./American Pulverizer Hydro-Chem Systems <b>Hydrolec Inc.</b>	IMI Precision Engineering <b>Impact</b> <b>Industrial Magnetics, Inc.</b> Infinity Massage Chairs InfoSend, Inc. InSight Mobile Data <b>Insurance Office of America</b> <b>Intec Video Systems, Inc.</b> InterClean Equipment, Inc. International Baler Corporation <b>IPL Products Ltd.</b> Iron Container/Equipco/NuLife Environmental <b>ITA Dynamics</b> IXS Coatings J & J Truck Bodies & Trailers J&J Portable Sanitation Products <b>Jordan Reduction Solutions</b> <b>Kadant PAAL</b> <b>Kann Manufacturing Corporation</b> <b>Karl Schmidt Manufacturing Inc.</b> <b>KEITH Manufacturing</b> Ken's Truck Repair, Inc. <b>Kimmel &amp; Associates</b> Klinger Paint KNL Holdings, LLC/Peerless Trailers <b>Komatsu America Corp</b> <b>Komtech Americas</b> LaBounty <b>Labrie Enviroquip Group</b> <b>Leadpoint Business Services</b> <b>Liebherr Construction Equipment Co.</b> Lindner Recyclingtech America LLC The Lion Electric Company Liquitube Tire Sealant LoadMan On-Board Scales & Software <b>Loadmaster</b> <b>LSC Environmental Products, LLC</b> Ludlum Measurements, Inc. Luff Industries <b>Lytix</b> <b>MAC Trailer Mfg., Inc.</b> <b>Machinex Technologies, Inc.</b> <b>Mack Trucks</b> Mailhot Industries <b>Majestic Glove</b> Maren Balers and Shredders Mark-Costello Co., The <b>Mayfran International</b> McEntee Media Corporation <b>McNeilus Truck &amp; Manufacturing</b> Metalcrete Industries Metro Compactor Service Metso Minerals Industries, Inc <b>Michelin North America, Inc.</b> Midwest Elastomers, Inc <b>Moba Corporation</b> MoistTech Corp. Molok North America MS Foster & Associates, Inc. MSW Management Magazine Multi-Seal Corporation <b>Muncie Power Products</b> <b>National Interstate Insurance Company</b> National Organics Recycling Systems <b>Navusoft, LLC</b> <b>NCM Odor Control</b> <b>Neptune Automated Wheel Wash Systems</b> Neustarr Equipment <b>New Way</b> Norbar Torque Tools <b>Nova Products</b> NS Corporation Oakmont Capital Services <b>O'Brian Tarping Systems</b> OEM Controls, Inc. OMI Industries <b>OnePlus Systems</b> Onspot Orange County Thermal Ind., Inc ORBIS Corporation (formerly Norseman Environmental) Orbit Metal <b>Organix Solutions</b> Orwak North America <b>Otto Environmental Systems North America, Inc.</b> OWS Ozinga Energy <b>PAK-MOR Ltd.</b> <b>Palfinger North America</b> <b>Paradigm Software LLC</b> <b>Parker Hannifin Corporation</b> PEAK Commercial Industrial
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Interested in Exhibiting? Call Marc Acampora at 203-523-7044 or Debra Busby at 203-523-7060.

**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**

Pegex  
 Pellenc ST  
**Pemberton, Inc.**  
 Penny Pockets  
**PeopleReady**  
**People's United Equipment Finance Corp.**  
**Perkins Manufacturing Co.**  
**Perma-Coat**  
**Permo, Inc.**  
**Peterbilt Motors Company**  
**Petersen Industries, Inc.**  
 Peterson Manufacturing  
 Petro-Canada Lubricants, Inc.  
 Phelps Industries, Inc.  
 Pinnacle Engineering Inc  
**Pitbull Trailers**  
 Plexus Recycling Technologies  
 Power Knot LLC  
 Power Pusher, A Division of Nu-Star Inc.  
**PRECO Electronics, Inc.**  
**PREMIER Truck Sales & Rental Inc.**  
 Primary Machinery  
 PRO-VISION Video Systems  
 Qualiform  
 Qwik-Tip Inc.  
 Ramky Enviro Engineers  
**RDk Assets, LLC**  
 ReCollect Systems  
**Rehrig Pacific Company**  
**Reliable Transmission Service**  
**Republic Services**  
 Resource Recycling Magazine  
 Revolution Systems  
 Rios Organics Recovery (ROR)  
**Roeda Signs & ScreenTech Imaging**  
**ROI**  
**Roll Rite LLC**  
**ROLLOFFS, USA Inc..**  
**Rotac Tipppers by Micromatic LLC**  
 Rotational Molding Inc.  
 Rotobac  
**Rotochopper**  
**RouteOptix, Inc.**  
**RouteSmart Technologies, Inc.**  
**Routeware, Inc.**  
 Routeware, Inc.  
 RRL Insurance Agency  
 Rubicon Global  
**Rush Refuse Systems**  
 RWI Enhanced Evaporation

Safety Vision, LLC  
 Samsara  
 Sanitech Systems  
 Sanuvov Technologies  
 Scan-Link  
 SCARAB  
**Schaefer Systems International, Inc**  
**Schroeder Industries LLC**  
 Schuyler Rubber Co., Inc.  
 Scott Equipment Company  
**SCS Engineers/Field Services**  
 Sears Seating  
 ServiceCore  
**SETCO Solid Tire & Rim**  
**Sheboygan Paint Company / Mobile Container**  
 Service  
 Shell Lubricants  
 Sherbrooke OEM LTD  
**Shred-Tech**  
 Sierra Energy  
**Sierra International Machinery**  
**Snyder Industries, Inc**  
**Soft-Pak**  
 Sonozaire  
 Sourcewell  
 Spaleck USA LLC  
 Sparta Manufacturing  
 Specialized Trailers Int.  
 Speedy Sweep-Haaga Sweepers  
 SSI Shredding Systems, Inc.  
**STADLER America, LLC**  
**Starlight**  
 Steinert US  
**Stellar Industries, Inc.**  
**Sustainable Generation/GORE**  
 SWANA - Solid Waste Association  
**SwapLoader U.S.A., Ltd**  
 Switch-N-Go  
 TA Equipment Finance, Inc  
**TANA- North America**  
 tarpARMOR  
 Tarpomatic, Inc.  
**TCF Equipment Finance**  
 Terra Compactor Wheel  
 TerraClean  
 Terramac LLC  
 Thoeni North America Ltd.  
 Tiger Payment Solutions  
 TOMRA Sorting Inc  
 Torcup, Inc.

**TORXX Kinetic Pulverizer Ltd.**  
 Trashbolt  
 TransAxle  
 Trelleborg Wheel Systems Americas, Inc.  
**Trillium CNG**  
 Trimble  
 Triple Crown Products, Inc.  
 Triumph Commercial Finance  
 TruckPro, Inc  
**Trux Route Management Systems**  
**Ty Cushion Tire**  
 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  
**Volvo Construction Equipment**  
**WAM Software, Inc.**  
 Warren & Baerg Manufacturing  
 Waste Applications, Inc.  
**Waste Connections**  
**Waste Equipment Rentals & Sales**  
 Waste Funding  
 Waste Harmonics  
 Waste Management, Inc.  
 Waste Pro USA, Inc.  
 Waste Today/Recycling Today/Construction &  
 Demolition Recycling  
 WasteMag Magazine  
**Wastequip**  
 WasteWORKS/Carolina Software  
 Webb Severe Duty  
**WEIMA America, Inc.**  
 Weller Truck Parts Inc  
**Wells Fargo Equipment Finance**  
 West Salem Machinery Company  
 Western Baler & Conveyor Inc.  
 Western Equipment Finance, Inc.  
**Wheelabrator Technologies**  
**Wheeler Bros.**  
**Whelen Engineering Co.**  
**Worthington Industries**  
 Xiangtan Evergreen Trade Co., Ltd.  
 Xogen Technologies Inc.  
 Zibo United Tech Machinery Co., Ltd  
 Zone Defense

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Food Recovery Forum Co-Sponsor



Garbage Bin Sponsor



Investor Summit Host



Public Sector Networking Event Host



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Welcome Reception Host





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

**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.



**Eric Bostian**  
Rumpke Waste  
Services



**Genevieve Dombrowski**  
Republic Services



**Carrie Miller**  
WCA America



**Melkeya McDuffie**  
Waste Management



**Amanda Mickelson**  
Oshkosh Corporation  
(McNeilus)



### 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



### Reducing Food Waste and Increasing Recovery in Municipal, Regional, and State Programs

**Moderator:** Evan Edgar, Edgar & Associates, Inc.

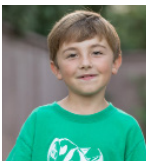
- Food Recycling and Rescue – Los Angeles County's Three-Pronged Approach. Suk Chong, Senior Civil Engineer, Los Angeles County Public Works and Michelle Leonard, Vice President, SCS Engineers
- Accelerate Food Waste Reduction Through Collaboration. Holly Stirnkorb, Senior Solid Waste Planner, Metro. 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

- Zero Heroes with 2020 Vision. Zero Waste, Biogas, CNG, Food Waste to AD and Compost. Evan Edgar, Principal, Edgar & Associates, Inc. CA
- 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](https://WasteExpo.com) to register today! Register by **May 20, 2020** to save.

**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!**

**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.

8

WASTE EXPO 2020 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 1/8/2020 – Session topics, speakers & moderators are subject to change.)



In collaboration with:



National  
Waste & Recycling  
Association



Dr. Stu Buckner

	 Technology & Innovation	 Operations, Fleet & Safety	 Organics Management	
Monday, August 10	9:00-10:15AM	Sky-high Recycling: From Ground Level to 30,000 Feet	Independent Haulers & The Role of Technology	Keynote Session: Progress on Food Waste Prevention, Reduction, & Recovery
	10:30-11:45AM	Cart Technologies: From Critter Proofing to RFID	A Balancing Act: Municipalities Talk Recycling Issues	
	10:30AM -12:00PM			Anaerobic Digestion: Technologies, Feed-stocks, Successful Case Studies
	12:15-1:30PM	Safety Solutions: Turning to Tech	People's Choice Session: Legislative Updates by Region	
	12:45-2:15PM			Composting Technologies, Case Studies, BMP's, Public-Private Partnerships
	1:45-3:00PM	Modern MRFs: How Technology Is Shaping Today's MRFs	NothingWasted! Unique Beginnings	
	2:30-3:45PM			Anaerobic Digestion: Technology Evaluation, Renewable Energy from Organics, Biofuels
	3:15-4:30PM	Recycling at a Crossroads: How New Technologies Are Shaping Recycling	Re-thinking Your Safety Program	
	4:00-5:30PM			Organics Diversion and Collection
	4:30-5:30PM			
	 Technology & Innovation	 Operations, Fleet & Safety	 Organics Management	
Tuesday, August 11	9:00-10:15AM			Evaluation of Organics Management Options; Composting Odor Control; Equipment Maintenance
	10:15-11:00AM	SPOTLIGHT SESSION: CEO Interview: One-on-one Chat with Worthing Jackman, President & CEO, Waste Connections		
	PUBLIC SECTOR SUPER SESSION	SPOTLIGHT SESSION: Reducing Food Waste and Increasing Recovery in Municipal, Regional, and State Programs		
		10:30-11:50AM		AD and Composting: Integrated Solutions, Pre- and Post-Treatment Options
	11:10AM -12:30PM	SPOTLIGHT SESSION: The Waste & Recycling Industry Employment Outlook		
	12:55-2:05PM			Panel Discussion on The Future of Organics in California
	1:30-2:45PM	Utilizing Tech & Data for Business Operations	Lithium Batteries: Protecting Your Organization	
	PUBLIC SECTOR SUPER SESSION	SPOTLIGHT SESSION: Feet on the Street Atlanta—The Recycling Partnership's Case Study on Citywide Contamination Reduction		
		1:45-3:15PM		Residential and Multi-Residential Organics Diversion
	2:15-3:30PM			
	3:00-4:15PM	NothingWasted! War on Plastics	Operations: A View from the Hauler	
	PUBLIC SECTOR SUPER SESSION	SPOTLIGHT SESSION: Plugging Into Opportunities in Refuse Fleet Electrification		
3:30-5:00PM			Grants and Subsidies for Organic Recycling	
3:45-4:45PM				
	 Technology & Innovation	 Operations, Fleet & Safety	 Organics Management	
Wednesday, August 12	9:00-10:15AM	MRF Recycling Technologies	Complications of Cannabis	Conversion Technologies for Organics, Using Existing WWTP Infrastructure
	10:30-11:45AM	SPOTLIGHT SESSION: Ryan Hickman – Ten-year-old Recycling Superstar Represents the Future of Recycling Adam Minter – Stuff: The Hidden Borderland of Waste and Recycling		
	10:25-11:40AM			Mechanical Biological Treatment (MBT), Gasification, and Other Conversion Technologies
	12:15-1:30PM	NothingWasted! Addressing Climate Change & Packaging	A Heavy Conversation: Addressing Truck Weight Issues	Upcycling Organic Waste, Biodegradability and Bioaccumulation of Polymers, Circular Economy as a Strategic Mission
	1:40-2:40PM			NothingWasted!: Visionary Perspectives on Sustainable Systems, Zero Waste, and Biofuels
	1:45-3:00PM	Cybersecurity Concerns: Managing Data in Waste	The Ins & Outs of Building Your Facility	
	2:50-4:00PM			[PRF #1] Small Scale & Scalable Food Waste Recycling Technologies for Food Waste Generators
	4:10-5:00PM			NothingWasted!: Closing Plenary: Food Waste Paradigms
Thursday, August 13	WasteExpo Workshops			
	8:30AM-12:30PM	Food Waste and Organics Diversion for All Waste Generators: Commercial, Residential, and Institutional	Introduction to Zero Waste Certified Training	



Co-located Conferences:

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

Check out WasteExpo's Special Events at [WasteExpo.com](https://www.wasteexpo.com)

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

<div> <b>Food Recovery Forum</b> Sponsored by </div> <div> <b>Recycling &amp; Landfill</b></div> <div> <b>Business Insights &amp; Policy</b></div>			<b>Waste360/Stifel Investor Summit</b>  <b>7:30AM – 5:30PM</b> (Separate registration required)
Keynote Session: Progress on Food Waste Prevention, Reduction, & Recovery	C&D: Tearing It Down & Building It Up	Establishing Your Employer Brand: When Advertising Isn't Enough	
	What's New with Mixed Waste?	2020 Election: Updates & Expectations	
Advances in Wasted Food Policy and Practices; Using Measurement Tools to Reduce Food Waste and Drive Prevention			
	How Many Zeros in Zero Waste: Benefits & Tradeoffs	Thrown Away? Creating Job Opportunities for Re-entering Citizens	
Standardized Date Labels, Information Campaigns and Consumer Food Waste: Research and Response			
	Case Studies for Successful Recycling Programs	How? When? To Whom?—The Ins & Outs of Selling Your Business	
Designing Solutions to Ensure Food Security - ReFED's Nonprofit Food Recovery Accelerator			
<div> <b>Food Recovery Forum</b> Sponsored by </div> <div> <b>Recycling &amp; Landfill</b></div> <div> <b>Business Insights &amp; Policy</b></div>			<b>Waste360 Business Leadership Forum:</b>  <b>11:30AM – 4:00PM</b> (Separate registration required)
The Effects of Organics Diversion Policies on Food Donation	Joining Forces: Tackling the Current Recycling System Across Industries		
Preventing Food Waste and Ending Hunger in the U.S.: Award Winners of Kroger's Zero Hunger Zero Waste Foundation's Innovation Fund			
	NothingWasted! History of Recycling – Live	Rising Leaders Talk Trash	
<div> <b>Food Recovery Forum</b> Sponsored by </div> <div> <b>Recycling &amp; Landfill</b></div> <div> <b>Business Insights &amp; Policy</b></div>			<b>Waste360 Healthcare Waste Conference:</b>  <b>8:00AM – 5:00PM</b> (Separate registration required)
Leading by Example: Food Recovery Best Practices with Winners of the General Mills Food Recovery Champions Program			
	The Aftermath Continues: China Updates	Servant Leadership: How to Build a Strong Culture in Your Organization	
The Upcycled Food Association: The New Voice of an Industry, Promoting Upcycling Nationwide			
<div> <b>Food Recovery Forum</b> Sponsored by </div> <div> <b>Recycling &amp; Landfill</b></div> <div> <b>Business Insights &amp; Policy</b></div>			<b>Waste360 Healthcare Waste Conference:</b>  <b>8:00AM – 5:00PM</b> (Separate registration required)
Prioritizing Source Reduction in Food Recovery Programs: Creating and Quantifying Behavior Change Across The Food System	For or Against? Debating Recycling	Breaking Down Business Trends	
Technology + Civic Engagement + Partnerships: Launching and Scaling Food Recovery			
Uncovering the Complexities of the Food Donation System	Textile Recovery: From Reuse, Renewal and Recommerce to Recycling	Business Transformational Processes & How They Apply to a 2020 (and Beyond) Workforce	
Capturing Event Food Waste to Maximize Food Waste Prevention, Donation and Diversion			
	Regulations Upon Regulations—Landfill Gas Update	Retain Employees Through Intentional Organizational Culture	
[FRF #2] Food Rescue BMP's; Food Waste and Zero Waste Strategies in Schools			
NothingWasted!: Closing Plenary: Food Waste Paradigms			

WasteExpo Workshops		
NWRA Safety Symposium	Crunching the Numbers: Understanding the Data and Realities in Materials Recovery (EREF)	

# 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.

## 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

#### **Recycling at a Crossroads: How New Technologies Are Shaping Recycling**

Technology will solve all our problems. Maybe not all of them – but technology is changing recycling in 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 – 11:45 AM

#### **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.

**NOTHING  
WASTED TALKS** 1:45 PM – 3:00 PM  
**Unique Beginnings**

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.

3:15 PM – 4:30 PM

#### **Re-thinking Your Safety Program**

The importance of safety culture in an industry that is in the top 10 most dangerous occupations is everything. But all too often, safety programs do not evolve over time, and don't adapt to the new challenges we face today. Monthly safety meetings become scripted and lackluster. There is no personal tie-in, and safety programs begin to fall flat. So maybe it's time to rethink them. Find out how to revive your safety program through understanding your culture, adopting a new safety meeting model that inspires your staff, and making effective changes that drive the performance of your organization.



## 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

- Kroger's Zero Hunger | Zero Waste Social Impact Plan: A commitment to ending hunger in our communities and eliminating waste across The Kroger Company by 2025. Sunny R. Parr, Foundation Director, The Kroger Co. Zero Hunger Zero Waste Foundation, OH
- Engaging Consumers: How a Leading Food Company is Helping Rescue Food from Waste. Lee Anderson, Director of Global Issues Management and Public Affairs, General Mills. MN  
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 Januszkiewicz, 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
- Organics Recycling via On-Farm Anaerobic Digestion Benefits Organic Waste Producers, Haulers, Farms, and the Environment. John B. Hanselman, CEO, Vanguard Renewables. MA
- A Developers View of Anaerobic Digestion Based Renewable Energy from Organics. Rashi 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 Ezzet and Haley Kunert, HF&H 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

- Kroger's Zero Hunger | Zero Waste Social Impact Plan: A commitment to ending hunger in our communities and eliminating waste across The Kroger Company by 2025. Sunny. Parr, Foundation Director, The Kroger Co. Zero Hunger Zero Waste Foundation, OH
- Engaging Consumers: How a Leading Food Company is Helping Rescue Food from Waste. Lee Anderson, Director of Global Issues Management and Public Affairs, General Mills. MN  
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
- US EPA Reducing Food Waste: Measurement and Tools. Claudia Fabiano, Sustainable Management of Food, US EPA. DC
- 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.

4:00 PM – 5:30 PM

### **Food Waste BMP's, Technology App's, Zero Waste, and Innovative Recovery Solutions**

**Moderator:** Coryanne Mansell, Center for EcoTechnology

- MealConnect: Preventing Food Waste and Fighting Hunger. Justin Block, Managing Director, Retail Information Services, Feeding America and Natasha Curley, Food Sourcing Specialist, Second Harvest Food Bank. LA
- Food Waste Is a Design Flaw. Christina Mitchell Grace, CEO, Foodprint Group. NY
- Adding Value and Reducing Waste in the Fruit and Vegetable Supply Chain: One company's strategies to reducing fruit and vegetable waste pre-retail while adding to producer's bottom lines. Evan Lutz and Kevin Kresloff, Hungry Harvest. MD
- Food Recovery and Zero Waste -The Missing Link: The Green Oceanside Kitchen. Colleen Foster, City of Oceanside. CA
- Food Waste Recycling Best Practices. Ryan Cooper, Waste Diversion Manager and Organics Recycling Lead, Rubicon Global. GA



### **RECYCLING & LANDFILL**

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)! More and more companies, governments and the public are demanding environmentally sound recycling of C&D. How is this done in a responsible and safe manner that provides defensible and auditable results? Find out from C&D experts!

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?

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.

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.



### **BUSINESS INSIGHTS & POLICY**

9:00 AM – 10:15 AM

#### **Establishing Your Employer Brand: When Advertising Isn't Enough**

Both the private and public sectors continue to face the challenge of recruiting and retaining quality employees—particularly drivers and operational positions—given the economy, robust job market, and general misunderstanding of the solid waste industry. For the past few years, Lancaster County Solid Waste Management Authority (LCSWMA) has undertaken an Employer Brand Initiative (EBI) to position it as a premier employer in its community. LCSWMA's EBI is a multi-faceted effort that includes three key components: 1) Fostering best practices with recruitment and retention—wage/benefit adjustments, enhanced wellness/safety programs, culture programs, education/training and more. 2) Developing and launching an Employer Brand—external and internal research (focus groups, surveys), rebranding (video, marketing materials), advertising campaign, etc. 3) Establishing community partnerships to create pipelines for potential talent.

10:30 AM – 11:45 AM

#### **2020 Election: Updates & Expectations**

There is a lot of conjecture surrounding the 2020 election, and what impact it might have going forward, specifically on the waste industry. Get a status update of where we currently stand and what we might expect from the 2020 administration.

12:15 PM – 1:30 PM

#### **Thrown Away? Creating Job Opportunities for Re-entering Citizens**

According to the U.S. Department of Justice, every year more than 700,000 individuals are released from jails and prisons. At the same time, the labor shortage across the waste and recycling industry continues to grow. Looking to ex-offenders to fill labor shortage needs has become more and more accepted across many industries, including waste and recycling. This session will share success stories of re-entering citizens in the industry, address what is currently being done to encourage hiring of ex-offenders and explore what potential opportunities and incentives there are for recruitment.

1:45 PM – 3:00 PM

#### **How? When? To Whom?—The Ins & Outs of Selling Your Business**

The decision to sell a business that has been built over many years is perhaps the most important decision of the business owner's professional life. Questions abound. Why might I want or need to sell my business? What is the best way to go about selling my business? When is the best time to sell? To whom should I sell? In this interactive session, we will explore and discuss some of the critical factors that impact these and other important questions business owners may have. Attendees will be encouraged to participate by asking our panelists questions of their own. This session is a must for business owners, whether they are thinking of selling now, or 10 years from now.

3:15 PM – 5:30 PM

#### **Commodities Super Session: Updates & Trends**

Divided into two parts, this super session will share the latest on recycling commodities and what trends the industry is seeing in 2020. Join experts for Part I to get the low down on paper, aluminum and glass. Part II will take a deeper dive into plastics, where panelists will focus on polypropylene, PET and HDPE.

- 3:15 PM – 4:15 PM: Part I – Paper, Aluminum & Glass
- 4:30 PM – 5:30 PM: Part II – Plastics

**Tuesday, August 11, 2020**

## SPOTLIGHT sessions



**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**

**Moderator:** Evan Edgar, Edgar & Associates, Inc.

- 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 Stirnkorb, 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 Shuttles, 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 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.



## TECHNOLOGY & INNOVATION

**1:30 PM – 2:45 PM**

### **Utilizing Tech & Data for Business Operations**

New technology can be overwhelming – especially if you're a smaller operation. But in today's world, embracing technology is the only way waste companies will remain successful. So, how do you know which technologies are best for your operation, and how do you implement them? Once implemented, how do you leverage those technologies to enhance your business? Join this session and walk away with a list of technologies and a step-by-step framework to help increase revenue, improve efficiency, and maximize profits.

**3:00 PM – 4:15 PM**

### **War on Plastics**

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 altogether? Find out what steps are being taken to address this growing global problem.



## OPERATIONS, FLEET & SAFETY

**1:30 PM – 2:45 PM**

### **Lithium Batteries: Protecting Your Organization**

Lithium-ion batteries remain one of the biggest safety issues in the waste and recycling industry. Join this panel as they focus on the lithium-ion batteries issue facing the waste and recycling industry and the fire risks facing full lifecycle, from manufacturing through end of life. Attendees will learn the full lithium-ion battery supply chain – from manufacturing through end of lifecycle; the scope of the fire issues facing the industry including facilities, trucks, transportation and storage; and best practices for fighting these fire incidents.

**3:00 PM – 4:15 PM**

### **Operations: A View from the Hauler**

This popular format features several haulers sharing insights into the topic of operational efficiency. Gain real-world insight during this lively discussion of best practices, technology implementation, employee management, the changing workforce, current operational challenges, facility management and more.





## 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 Reframing 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 Dirks, Application Specialist, Vermeer 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. McDona-ld\*2, 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, Agronom, CA
- 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

- Zero Waste Residential and Multi-Residential programs. Phil Ragan, EcoSafe Zero Waste, BC  
Easy as 1, 2, 3. Success stories from Coast to Coast, San Francisco to Bowie Md. Diverting thousands of tons of organic waste from landfill.
- How to Start and Maintain a Multi-Residential Program: Keys to training each participant and working with hauling 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. Alexa Kieilty, City of San Francisco, CA

3:45 PM – 4:45 PM

### Grants and Subsidies for Organic Recycling

**Speakers:** Bruce and Janet Everly, 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.

– Example projects that qualify funding

– How to apply for grants with the least pain and expense



## FOOD RECOVERY FORUM

Solutions to Food Waste Prevention, Reduction, & Recovery

9:00 AM – 10:15 AM

### The Effects of Organics Diversion Policies on Food Donation

**Moderator:** Hannah Cather, Food Recovery Network.

- Leveraging Organic Waste Mandates. Hope Pascoe, Alameda County Community Food Bank. CA
- RecycleSmart Edible Food Generator Survey, Contra Costa County Solid Waste Authority. Tracie Onstad Bills, SCS Engineers, CA
- Public-Private Partnerships Support Wasted Food Diversion Efforts. Coryanne Mansell, Center for EcoTechnology. MA
- Vallarta Supermarkets Recycling, Organics, and Food Waste Donation. Cory Oskardmay, Go2Zero Strategies. CA

## SPOTLIGHT sessions



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 Nahmias, 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 Oraschewsky - Co-Founder, TBJ Gourmet



## RECYCLING & LANDFILL

9:00 AM – 10:15 AM

### 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.



1:30 PM – 2:45 PM

### 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 as 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 experienced 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.

3:00 PM – 4:15 PM

### 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.



## BUSINESS INSIGHTS & POLICY

1:30 PM – 2:45 PM

### 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.

3:00 PM – 4:15 PM

### 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

## SPOTLIGHT sessions



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.

**Speaker:** Adam Minter, Asia-based columnist for Bloomberg Opinion and Author, "Secondhand: Travels in the New Global Garage Sale"



## TECHNOLOGY & INNOVATION

9:00 AM – 10:15 AM

### MRF Recycling Technologies

Check out this session online at [wasteexpo.com/agenda](https://wasteexpo.com/agenda)



12:15 PM – 1:30 PM

### Addressing Climate Change & Packaging

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 was "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.

**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 Klaich, 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, CalRecovery

- 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 Tobiason, 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 Celik, Genecis Bioindustries Inc. ON
- Aerobic and Anaerobic Biodegradability of Biopolymers. László Aleksza, CEO, ProfiKomp Környezettechnika 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. GA



## NOTHING WASTED TALKS Visionary Perspectives on Sustainable Systems, Zero Waste, and Biofuels

**Moderator:** Dr. Stuart Buckner, Buckner Environmental Associates, LLC

- Zero Heroes with 2020 Vision. Zero Waste, Biogas, CNG, Food Waste to AD and Compost. Evan Edgar, Principal, Edgar & Associates, Inc. CA
- 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

**2:50 PM – 4:00 PM...** \*NOTE – 2:50 PM-4:00 PM does not offer an Organics Management session. Instead it features 2 concurrent session options from Food Recovery Forum Track; please see that track for options; attendees will have to choose CONCURRENT FOOD RECOVERY FORUM SESSION(S)



## NOTHING WASTED TALKS Closing Plenary: Food Waste Paradigms

- 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



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

**9:00 AM – 10:15 AM**

### Prioritizing Source Reduction in Food Recovery Programs: Creating and Quantifying Behavior Change Across The Food System

**Moderator:** Geertje Grootenhuis – San Diego Food System Alliance

- Source Reduction in 15 of San Diego's Largest Institutions Through the Smart Kitchens San Diego Partnership. Rachel Oporto, Program Coordinator, San Diego Food System Alliance. CA
- Consumer Education About Wasted Food at the Point of Sale in Grocery Stores and Farmers Markets. Geertje Grootenhuis,

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 Materials Management. OR
- Supporting Food Rescue Through Partnerships. Katie Pearmine, 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 collaboration 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 management. 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...** \*NOTE – 2:50 PM-4:00 PM does not offer an Organics Management session. Instead it features 2 concurrent session options from Food Recovery Forum Track; please see that track for options; attendees will have to choose CONCURRENT FOOD RECOVERY FORUM SESSION(S)

**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 intervention 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, EcoConsilium. MN

**NOTHING  
WASTED**

#### **TALKS Closing Plenary: Food Waste Paradigms**

**4:10 PM – 5:00 PM**

**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



#### **RECYCLING & LANDFILL**

**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 recycling 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 category 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 or OOO, Subpart Ba—is that it? What is the alphabet soup of rules and how do they apply to landfills? What do landfill owners need to know to stay in compliance?



#### **BUSINESS INSIGHTS & POLICY**

**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.





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