

OPENING PLENARY

North Shore Ballroom

9:00 AM - 10:15 AM

The Power Of Organics

Moderator: Nora Goldstein, BioCycle

Moving Toward A Climate Resilient New England



Curt Spaulding Administrator, EPA New England

Massachusetts Advances Organics Recycling And Renewable Energy



Martin Suuberg Commissioner, MA Dept. of Environmental Protection

Creating An Electric Utility Of The Future



Mary Powell Chief Executive Officer, Green Mountain Power

Coffee • Grand Ballroom 10:15 AM-11:00 AM

TRACK 1 North Shore Ballroom A

11:00 AM - 12:15 PM

AD Project Development Strategies

Moderator: Melissa Pennington, U.S. EPA Region 3

Large-Scale MSW Organics Digester Ready To Launch Paul Relis, CR&R, Inc.

Integrating AD For Food Scraps On Composting Facility Footprint Douglas Ross, Freestate Farms

Lessons From European AD Project Developers Bill Elliott, Best Organic Solutions, Ltd.

TRACK 2 North Shore Ballroom B

What Biogas Funding Parties Want To Fund — And Why

Moderator: Mike Land, Baker Tilly Organized by American Biogas Council

Panel Discussion

Paul Owen, Caterpillar Financial Services Corp. John Dannan, Energy & Infrastructure Capital, LLC Chris Voell, Aria Energy

Buffet Lunch • Grand Ballroom • 12:15 PM-1:45 PM

1:45 PM - 3:30 PM

Implementing State Organics Bans

Moderator: Chris Beling, EPA New England

Commercial Food Scraps Disposal Ban — One-Year Milestone

John Fischer, Massachusetts Department of Environmental Protection

Phasing In A Commercial, Residential Diversion Mandate

Josh Kelly, Vermont Agency of Natural Resources

If You Ban It, Will They Build Processing Capacity? The Connecticut Experience

Chris Nelson, Connecticut Department of Energy and Environmental Protection

Municipal Policy Frameworks, Business Models To Advance Food Scraps Recovery Carol Jones, Environmental Law Institute

Biogas Development In New York State: Drivers Of Change, Opportunities To Prosper

Moderator: Jack Huttner, Huttner Strategies and NY Biogas Study Group Organized by American Biogas Council

New York City Organics Policy: Status Update Bridget Anderson, New York City Department of Sanitation

Policy Levers To Accelerate The Industry Wayne Davis, Harvest Power

Utility Reform In NYS: Creating A Distributed & Renewable Energy Future Ryan Katofsky, Advanced Energy Economy

Municipal Infrastructure And Renewable Energy: A National Perspective Jeremy Holland, HDR Engineering

Food Scrap Handling And Supply Chain Potential in Metro NY Nate Carr, quasar energy group

Refreshments • Grand Ballroom • 3:30 PM-4:15 PM

4:15 PM - 6:00 PM

State Organics Ban Compliance — The Massachusetts Experience

Moderator: Lorenzo Macaluso, Center For EcoTechnology

Navigating Financial Incentives For AD In Massachusetts Amy Barad, Massachusetts Clean Energy Center

Food Scraps Processing Infrastructure Assessment Zoë Neale, Mass Organics Solutions, LLC

On-Site Options To Ensure Ban Compliance Karen Franczyk, Whole Foods Market

Collection Innovations, Quantity Vs. Quality In Ban Compliance Abbie Webb, Casella Resource Solutions

Federal Biogas Opportunities: The U.S. Roadmap & Beyond

Moderator: Amy McCrae Kessler, Turning Earth, LLC Organized by American Biogas Council

History of Biogas In Federal Policy & ABC's Role: A Look at How Far We've Come Amy McCrae Kessler, Turning Earth, LLC

Obama Administration Perspective/Biogas Opportunities Roadmap Update Todd Campbell, U.S. Department of Agriculture

Biogas Legislation Update and Future/Post-2016 Election Political Landscape Maureen Walsh, American Biogas Council/Dynamic Change Group

ABC/BioCycle Reception • Grand Ballroom • 6:00 PM-8:00 PM

**TRACK 3**  
North Shore Ballroom C

**TRACK 4**  
Newburyport Room

**TRACK 5**  
Marblehead Room

1 1 : 0 0 A M - 1 2 : 1 5 P M

**Permitting AD Facilities, Digestate Utilization**

Moderator: John Fischer, Massachusetts Dept. of Environmental Protection

**Regulating Anaerobic Digestion, Digestate In New York State**

**Molly Baker**, New York State Department of Environmental Conservation

**Streamlining Permitting Process For Commercial Food Scraps Digesters**

**James Doucett**, Massachusetts Department of Environmental Protection

**Biological Performance and Digestate Quality At Seven AD Operations**

**Jake DeBruyn**, Ontario Ministry of Agriculture, Food and Rural Affairs

**Capturing, Utilizing Surplus Food**

Moderator: Chris Beling, EPA New England

**Building A Business By Capturing Surplus Foods**

**Bryn Oakleaf**, Vermont Agency of Natural Resources  
**Ismail Samad**, Daily Table

**Racing To End Food Waste At Big Venues**

**Jeremy Kranowitz** and **Heide Hart**, Sustainable America

NOTE: Speaker biographies are listed alphabetically beginning on page 20.

Buffet Lunch • Grand Ballroom • 1 2 : 1 5 P M - 1 : 4 5 P M

1 : 4 5 P M - 3 : 3 0 P M

**Codigestion With Biosolids**

Moderator: Ned Beecher, North East Biosolids & Residuals Assoc.

Organized by NEWEA/NEBRA

**Lumps, Bumps And Detours With Codigestion Planning And Implementation**

**Christopher Muller**, Brown and Caldwell

**Integrated Resource Management For Wastewater, Solid Waste And Energy**

**Jason Turgeon**, EPA New England

**Energy Efficiency, Solar And Biogas Power Yield Grid Independence At Oregon WWTP**

**Tim Muirhead**, Veolia Energy North America

**Achieving 100% On-Site Renewable Energy: The Hill Canyon Story**

**Thomas Moore**, BioSpark Clean Energy, LLC

**School, Institution And Corporate Food Scraps Composting**

Moderator: Luke Wolfgang, U.S. EPA Region 3

**Food Scraps Diversion In North Carolina Urban School District**

**Isaac Nicholson**, Mecklenburg County (NC) Solid Waste

**School Cafeteria Waste Minimization And Composting**

**Athena Lee Bradley**, Northeast Recycling Council

**Separation Strategies, Diversion Solutions At Boston's Colleges And Hospitals**

**Liza Casella**, Casella Resource Solutions

**Raytheon's Road To Zero Waste Certification**

**Brian Balukonis**, Raytheon Company

**Compost And Digestate Markets, Land Application**

Moderator: Gary Feinland, NYS Dept. of Environmental Conservation

**National Compost Marketing Initiatives**

**Ron Alexander**, R. Alexander Associates, Inc.

**Digestate Uses And Markets: An Overview**

**Ron Alexander**, R. Alexander Associates, Inc.

**Unique Food Wastes As Agricultural Amendments**

**Rebecca Long**, University of Rhode Island

**Equine Stable Waste, Poultry Litter Mix As Premium Potting Medium**

**Mollie Bogardus**, Green Mountain Technologies and Aveterra

Refreshments • Grand Ballroom • 3 : 3 0 P M - 4 : 1 5 P M

4 : 1 5 P M - 6 : 0 0 P M

**Farm Digester Optimization, Innovation**

Moderator: Nora Goldstein, BioCycle

**Fate and Effect Of Monensin During Anaerobic Digestion Of Dairy Manure**

**Walter Mulbry**, Agricultural Research Service, U.S.D.A.

**Optimizing Performance of On-Farm Digesters**

**Jen McDonnell**, Casella Organics

**Nitrogen Removal From Digested Swine Waste**

**Eric Staunton**, Univ. of North Carolina/CDM Smith

**Swine Digester Taps Environmental Attribute Markets**

**Gus Simmons**, Cavanaugh & Associates, P.A.

**Residential Food Scraps Collection And Composting: Case Studies**

Moderator: Ann McGovern, Massachusetts Dept. of Environmental Protection

**National Trends In Residential Food Scraps Collection And Composting**

**Christian Garaffa**, Novamont

**Expanding Beyond The Pilot Phase— Perspectives And Lessons Learned**

**Randi Mail**, Cambridge (MA) Department of Public Works

**Impact Of Pay-As-You Throw Recycling On Residential Food Scraps Collection**

**Robert Spencer**, Windham (VT) Solid Waste Management District (WSWMD)

**Panel Discussion: Composting Facility Experiences With Residential SSO**

**Fran Buzun** and **Joe Buzun**, Rocky Hill Farm  
**Robert Spencer**, WSWMD

**Packaging, Depackaging And Contaminant Removal**

Moderator: John Majercak, Center For EcoTechnology

**Compostable Packaging And Consumer Education**

**Judd Michael**, Penn State University

**Incoming Food Waste To Digester Feedstock: A Preprocessing Primer**

**Michael Theodoulou**, GE Water & Process Technologies

**Adding Depackaging Capabilities At WWTP**

**Brandon Moffatt**, Harvest Power

ABC/BioCycle Reception • Grand Ballroom • 6 : 0 0 P M - 8 : 0 0 P M

## TRACK 1 North Shore Ballroom A

## TRACK 2 North Shore Ballroom B

## TRACK 3 North Shore Ballroom C

8 : 3 0 A M - 1 0 : 1 5 A M

### Digester Operations — Lessons Learned

Moderator: Gary Feinland, NYS Dept. of Environmental Conservation

**Development, Operation Of Liquid Food Waste Digester**

Charles Opferman, Greenfire Management Services

**Reforming The Wisconsin Biogas Industry — Operating Challenges And Solutions**

Clinton Fandrich, Wisconsin State Energy Office

**Codigestion Of Dairy Manure And Nonfarm Feedstocks**

Dana Kirk, Michigan State University

**Tackling, Solving Full-Scale Operational Challenges**

Ryan Begin, FEED Resource Recovery

### RNG Market Pathways And RINs

Moderator: Sean Mezei, DeKany Consulting, Inc.  
Organized by American Biogas Council

**Renewable Natural Gas (RNG) To Vehicle Fuel—Projects, Prospects And D3 RINs**

Marianne Mintz, Argonne National Laboratory

**Economic Feasibility Of On-Farm RNG To Vehicle Fuel Systems**

Michelle McCutcheon-Schour, Vermont Energy Investment Corporation

**Technology Options To Convert Biogas To Vehicle Fuel**

Paul Greene, Natural Systems Utilities

**Fueling Fleets With RNG—Canadian Perspectives**

Jennifer Green, Canadian Biogas Association

### Frontiers In Wastewater Management, Codigestion

Moderator: John Fischer, Massachusetts Dept. of Environmental Protection

**Water Resource Recovery Facilities On Frontline Of Climate Resiliency**

Sally Brown, Univ. of Washington

**Maximizing Energy Recovery And Energy Efficiency**

James Jutras, Village of Essex Junction, Vermont

**An Anaerobic Digestion Adventure**

Clayton (Mac) Richardson, Lewiston-Auburn (ME) WPCA

**Utility Of The Future: High Solids AD, Class A & Nutrient Recovery**

Alan Johnson, quasar energy group

C o f f e e • G r a n d B a l l r o o m • 1 0 : 1 5 A M - 1 1 : 0 0 A M

1 1 : 0 0 A M - 1 2 : 1 5 P M

### Climate-Smart Agriculture And Organics Management

Moderator: Nora Goldstein, BioCycle

**Building Blocks For Climate Smart Agriculture And Forestry**

Venus Welch-White, U.S. Department of Agriculture

**AD Ombudsman As Catalyst to Improved Project Outcomes**

Nicholas Elger, ORISE Research Fellow, U.S. EPA AgSTAR

**Rural And Urban Mobility With Biogas And Biomethane In Brazil**

J. C. Pasqual Lofhagen, Pontifical Catholic Univ. of Paraná (Brazil)/Univ. of Arizona

### Biogas Operators University

Moderator: Vicki Hilborn, ABC Operators Working Group Co-Chair  
Organized by American Biogas Council

**State Of The Art Feeding System**

Ashwani Kumar, Harvest Power  
Bernard Sheff, ES Engineering Services, LLC

**Maintaining Digester Biology**

Vicki Hilborn, ABC Operators Working Group Co-Chair

**Digester Start-Up**

Ben Sheff, ES Engineering Services, LLC

**Post Digester Nutrient Separation-Why Add Chemicals?**

Brian Ross, Michigan Water Environment Association

### Advancing AD, Cow Power, Composting In Vermont

Moderator: John Majercak, Center For EcoTechnology

**Food Waste And Manure Codigestion, Water Quality In Vermont**

Alex DePillis, Vermont Agency of Agriculture, Food & Markets

**Growing A Farm Digestion Infrastructure — Past, Present And Future**

David Dunn, Green Mountain Power

**Business Evolution In Age Of Organics Disposal Ban**

Lisa Ransom, Grow Compost of Vermont

C o m m u n i t y • B u f f e t L u n c h • G r a n d B a l l r o o m • 1 2 : 1 5 P M - 1 : 4 5 P M

1 : 4 5 P M - 3 : 3 0 P M

### Microgrids, RECs, Biogas Storage And Pipeline Interconnections

Moderator: Nora Goldstein, BioCycle

**Microgrids In The Renewable Power Mix**

Galen Nelson, Massachusetts Clean Energy Center

**Sustainability Assessment Of "Cow Power" REC Purchases**

Deborah Krug, University of Vermont

**Biogas Storage And Peak Power Generation To Improve AD Project Economics**

David Palmer, TetraTech

**California's Interconnection Requirements And Logistics For RNG Injection**

Abel Yasells, Greenlane Biogas

### Organics Ban Implementation, Logistics, Enforcement: Lessons Learned & Tools For The Future

Moderator: Wayne Davis, Harvest Power  
Organized by American Biogas Council

**Rolling Out An Organics Ban**

Marian Kim, Metro Vancouver, British Columbia

**Policy Mix To Increase Recovery And Processing Capacity**

Matt Korot, Metro, Portland, Oregon

**Tools Of The Organics Diversion Trade**

Lorenzo Macaluso, Center for EcoTechnology

**Hauler On Frontlines Of Ban Compliance**

Benjamin A. Harvey, E. L. Harvey & Sons Inc.

### Source Separation, Pretreatment To Maximize Feedstock Quality

Moderator: Robert Spencer, Windham SWMD

**Optimizing Source Separation For Maximum Feedstock Quality**

Heather Billings, Center For EcoTechnology

**Making The Source Separation Decision: Considerations And Tradeoffs**

Kevin Matthews, CCI Bioenergy, Inc.

**Impact Of Seasonal Variation, Loading Rate On Organics Separation Efficiency**

Alireza Rajabpour Ashkiki, Univ. of Alberta, EWMCE

**Matching Pretreatment To Variations In Household Organics Streams**

Luc De Baere, OWS Inc.

R e f r e s h m e n t s • G r a n d B a l l r o o m • 3 : 3 0 P M - 4 : 0 0 P M

4 : 0 0 P M - 6 : 0 0 P M

### Biogas Markets—Vehicle Fuels, Gas Engines

Moderator: Douglas Ross, Freestate Farms

**Delivering RNG For Vehicle Fuel**

Adam Klaas, Unison Solutions

**CHP Engine Option For Smaller AD Facilities**

Matthew Williams, WesTech

**WWTP Digester Gas To CNG Vehicle Fuel**

Paul Stout, Cornerstone Environmental Group

**From Source Separated Biowaste To Biomethane At Municipal Digester**

Peter Chromec, Hitachi Zosen Inova

### Optimizing Digester Operations

Moderator: Nora Goldstein, BioCycle

**Food Waste Digestion Using Two Stage Mesophilic AD Process**

Bradley Kelsey, Clarkson University

**Analytical Methods For Digester Operation, Optimization**

Josh Mah, Virginia Tech

**Assessment Tool For Food Waste Diversion**

Colin Chadderton, USACE-ERDC Contractor, SOL ES

**Enhancing Biogas Production With FOG, Food Waste, Vegetable Cooking Oil**

Matt Gregori, FEED Resource Recovery, Inc.

### Anaerobic Digestion, Composting Of MSW Organics

Moderator: Amy Barad, MA Clean Energy Center

**Integrating Wet And Dry AD Systems To Increase Processing Efficiencies**

James R. Miller, J.R. Miller & Associates

**Advanced Front-End Processing To Capture Organics In Mixed Waste Stream**

Janine Ralph, HDR, Inc.

**Feedstock Quality Impacts On Biogas Yields**

Martin Hagenmeyer, STRABAG Umwelttechnik GmbH

**Odor Control At Urban AD-Composting Plant**

Florian Ferreira, TetraTech

**TRACK 4**  
Newburyport Room

8:30 AM – 10:15 AM

**Anaerobic Digestion Of Food Processing Residuals**

Moderator: Nora Goldstein, BioCycle

**Performance Of Membrane Bioreactor Treating Condiment Manufacturing Wastewater**

Shannon Grant, ADI Systems, Inc.

**Integrating Anaerobic Digestion Into Vegetable Processing**

Robin Szmidt, Target Renewables Ltd.

**Green Energy From Leftover Bread Crumbs**

Giles Gomme, AB Energy USA

Coffee • Grand Ballroom • 10:15 AM–11:00 AM

11:00 AM – 12:15 PM

**AD, Composting On Small Footprints**

Moderator: Luke Wolfgang, U.S. EPA Region 3

**Small-Scale Community Digester For Commercial, Institutional Organics**

Meredith Cummings, BIOFerm Energy Systems

**Compost-Heated Greenhouse With Biofilter Seedbeds For CO2 Capture**

Bruce Fulford, City Soil & Greenhouse and Brian Jerose, Agrilab Technologies

**Building A Community Of Composters, New York City Style**

Marguerite Manela, New York Department of Sanitation, NYC Compost Project

Buffet Lunch • Grand Ballroom • 12:15 PM–1:45 PM

1:45 PM – 3:30 PM

**Adding Value To Digester Products: Strategies And Technologies**

Moderator: Clarke Pauley, CR&R  
Organized by American Biogas Council

**Digestate Characterization For Nutrient Management Planning**

Andrew Carpenter, Northern Tilth

**Solution To Algal Bloom: How Agriculture & Wastewater Can Collaborate**

Mel Kurtz, quasar energy group

**Utilizing Biogas As Dimethyl Ether Diesel Alternative**

Dan Goodwin, Oberon Fuels

**Small-Scale And Innovative AD Systems, Technologies**

Moderator: Melissa Pennington, U.S. EPA Region 3

**Food Scraps To Bioenergy In Small-Scale Digesters**

Dave Dingman, Waste to Energy Lincoln (NE)

**Small-Scale, Low Cost Digester Installations In Latin America**

Alex Eaton, Sistema Biobolsa

**Biogas As Feedstock For Biodegradable Plastic Production**

Anne Schauer-Gimenez, Mango Materials

**Integrated AD, Composting Facility**

Alessandro Chiumenti and Paolo Chiumenti, University of Udine, Italy

Refreshments • Grand Ballroom • 3:30 PM–4:00 PM

4:00 PM – 6:00 PM

**Hot Topics: Engaging The Public**

Moderator: Andrew Carpenter, Northern Tilth  
Organized by NEWEA/NEBRA

**Mitigating Risks At AD Facilities**

Nellie Brown, Cornell University

**Separating Myths From Realities When Assessing Organics Recycling Risks**

Sally Brown, University of Washington

**Tools Of Public Engagement**

Maile Lono-Batura, NBMA

**Phosphorus Is Limiting Local Organic Residuals Markets**

Ned Beecher, NEBRA

**TRACK 5**  
Marblehead Room

**ALL DAY SITE TOURS**

For participants with advanced reservations only. Bagged lunch included. Please be prepared for inclement weather.

Airport-bound passengers should put luggage on bus, prior to boarding at DoubleTree Boston North Shore.

**SITE TOUR 1: North of Boston**

7:30 AM Board bus at DoubleTree

7:45 AM Bus departs for site visits

8:30 AM Arrive Greater Lawrence Sanitary District

9:45 AM Depart Greater Lawrence Sanitary District

10:30 AM Arrive Stonyfield Yogurt

11:30 AM Depart Stonyfield Yogurt

Lunch On Bus

12:15 PM Arrive University of New Hampshire Organic Dairy Research Farm

2:15 PM Depart University of New Hampshire Organic Dairy Research Farm

3:45 PM Arrive Logan International Airport

4:15 PM Arrive DoubleTree

**SITE TOUR 2: West of Boston**

7:45 AM Board bus at DoubleTree

8:00 AM Bus departs for site visits

8:30 AM Arrive Whole Foods Market

9:30 AM Depart Whole Foods Market

10:45 AM Arrive AGreen Energy/ Jordan Dairy Farm

12:00 PM Depart AGreen Energy Jordan Dairy Farm

Lunch On Bus

1:30 PM Arrive City Soil & Greenhouse and Agrilab Technologies

2:45 PM Depart City Soil & Greenhouse and Agrilab Technologies

3:15 PM Arrive Logan International Airport

3:45 PM Arrive DoubleTree

**Thursday October 22, 2015**

