

TUESDAY OPENING PLENARY

Caribbean Ballroom 1, 2

9:00 AM - 10:15 AM

Welcome

Nora Goldstein, BioCycle
Bernard Sheff, Chair, American Biogas Council
Honorable Sherrod Brown, U.S. Senator, Ohio (video)

The Power Of Organics

Moderator: Nora Goldstein, BioCycle

Florida's Organics Recycling Strategic Plan

F. Joseph Ullo, Jr.
 Division Director, Florida Department of Environmental Protection,
 Division of Waste Management

Coffee • Caribbean Ballroom 3, 4, 5 • 10:15 AM - 11:00 AM

TRACK 1

Caribbean Ballroom 1

TRACK 2

Caribbean Ballroom 2



11:00 AM - 12:15 PM

Organics Ban Implementation And Assessment

Moderator: Nora Goldstein, BioCycle

Organics Disposal Ban Implementation And Analysis

Paul Henderson, Metro Vancouver, BC

Organics Ban Compliance, Catalyzing Wasted Food Reduction

Lorenzo Macaluso, Center for EcoTechnology

Assessing Organics Bans

Panel Discussion

Federal Biogas Policy — Analyses And Predictions

Moderator: Amy McCrae Kessler, Turning Earth, LLC

Biogas federal policy hot topics, presidential candidates' positions on biogas and related industries, outlook for Lame Duck Session, likelihood of biogas tax credits extensions, and why you should care about the 2019 Farm Bill now.

Maureen Walsh, American Biogas Council

Paul Bleiberg, National Milk Producers Federation

Marcus Gillette, Coalition for Renewable Natural Gas

Buffet Lunch • Caribbean Ballroom 3, 4, 5 • 12:15 PM - 1:45 PM

1:45 PM - 3:30 PM

Contaminant Management, Depackaging

Moderator: Craig Coker, BioCycle

Composter Invests In Depackaging

To Service Food Waste Generators

Jay Fischer, Ag Choice

Processing SSO For WWTP Digesters

Daniel Hagen, Waste Management

Food Waste Preparation For Composting And AD

William Kish, Ecoverse

Feedstock Separation: Organics Versus Inorganics

Scott Nally, quasar energy group

Impact Investors In The Biogas Market

Moderator: William Jorgenson, Vanguard Renewables

Impact investing, the allocation of the institutional capital pool, is directed to a "cause" that is usually consistent with the main focus of the fund. Impact investors for the biogas industry focus on renewables or climate change. Panelists lay out their impact investing strategies and expectations.

Jeff Possick, MissionPoint Partners

John Dannan, Generate Capital, Inc.

Ben Vitale, Wastewater Capital Management, LLC

Mike Land, Baker Tilly

Refreshments • Caribbean Ballroom 3, 4, 5 • 3:30 PM - 4:15 PM

4:15 PM - 6:00 PM

Expanding Biogas Markets

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

Biogas Developments in Ontario —

Innovations To Tap New Opportunities

Chris Duke, Ontario Ministry of Agriculture, Food, and Rural Affairs

Pipeline Interconnection

And Impact Of Gas Quality Requirements

Jeremy Holland, HDR Inc.

CHP Project Development Model To Secure PPAs

Lauren Barbir, GE Power

Dairy Biogas Electricity And Fuels Cluster

N. Ross Buckenham, California Bioenergy LLC

How To Keep Digesters Successful — Overcoming Inevitable Challenges

Moderator: Norma McDonald, OWS, Inc.

Green Cow Power, 2015 ABC Awardee

Melissa VanOrnum, DVO, Inc.

UW Oshkosh Foundation Rosendale Biodigester,

2014 ABC Awardee

Brian Langolf, University of Wisconsin, Oshkosh

Chino, California Biogas Plant

Ben Sheff, ES Engineering

Fennville And Freeport, Michigan Biogas Plants

Andy Austin, Scenic View and Brook View Dairy

Hometown Bioenergy, 2015 ABC Awardee

Brian Meek, Avant Energy

Plus ... 6 Project Videos

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The Power Of Organics

Moderator: Nora Goldstein, BioCycle

**Roadmap To 50%
Food Waste Reduction By 2030**

Cheryl T. Coleman

Director, Resource Conservation
And Sustainability Division, U.S. EPA

**Moving The Needle
On Microgrids**

John Farrell

Director Of Democratic Energy,
Institute for Local Self-Reliance

NOTE: Keynote
speaker biographies
appear on page 9.
Speaker biographies
are listed alphabetically
beginning on page 25.

Coffee • Caribbean Ballroom 3, 4, 5 • 10:15 AM - 11:00 AM

TRACK 3

Caribbean Ballroom 6

TRACK 4

Caribbean Ballroom 7

11:00 AM - 12:15 PM

Biogas To Vehicle Fuel

Moderator: Jay Bassett, U.S. EPA Region 4

Trends In Growth Of U.S. Biogas To Vehicle Fuel Industry
Joanna Underwood, Energy Vision

Selling RINs In RFS Marketplace — Logistics And Insights
Susan Olson, Genscape

Biogas To Fleet Fuel — Case Studies
Eric Wilgenbusch, Unison Solutions

Digestate Management

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

Fertilizer Production From Digester Effluent
Josh Rapport, CleanWorld

**Converting Digestate To Biochar For Gas Cleaning,
Nutrient Recovery**
Andrew White, CHAR Technologies

**Commercial Grade Fertilizer Production
Utilizing Recycled Organics**
Jeffery Burnham, Anuvia Plant Nutrients

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1:45 PM - 3:30 PM

Codigestion With Biosolids

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

Advancing Codigestion Of Food Waste And Wastewater Solids
Allison Deines and **Lauren Fillmore**, Water Environment & Reuse
Foundation

**Using AD To Increase Efficiency
Of Municipal Wastewater Treatment**
Sabrina Eichenauer, University of Applied Sciences

**You Have Codigestion, Now What?
Researching Operational Impacts**
Micah Blate, Hazen and Sawyer

Biological Hydrolysis And Codigestion
Michael Theodoulou, GE Water & Process Technologies

Wasted Food Prevention And Rescue

Moderator: Heather Billings, Center for EcoTechnology

Waste Not Orange County: Feed The Need
Eric Handler, OCHCA and Waste Not Orange County

Scaling Food Waste Reduction
Steven Finn, ResponsEcology

Winning the Race To End Wasted Food
Heide Hart, Sustainable America, Inc.

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4:15 PM - 6:00 PM

WRRF Codigestion — Planning And Operations

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

**Process Hazards Analysis —
Preparing For What-Ifs At Codigestion Sites**
Paul Greene, CDM Smith

Food Waste Digestion Results In Net Energy Producer
John Hake, East Bay Municipal Utilities District, Oakland, CA

Codigestion And Biosolids-To-Energy Enhancement Project
Jim Meehan and **John Buonocore**, Rahway Valley Sewerage
Authority, NJ and **Rick Sapir**, Hawkins Delafield & Wood LLP

**Upgrading Biosolids AD Facility
In Preparation For Food Waste Codigestion**
Christine McKiernan, BIOFerm Energy Systems

Integrating Anaerobic Digestion And Composting

Moderator: Amy McCrae Kessler, Turning Earth, LLC

**Sequential AD And Composting Decision Making
Based On LCA Modeling**
Sara Pace, University of California, Davis

Practical Considerations Of Combining AD And Composting
David Border, DBCC

Composting Treatment Of Anaerobic Digestion Residuals
Brian Fuchs, W. L. Gore & Associates

**Can Composting Of Liquid Manure
Or Digestate Complete The N Cycle?**
Alessandro Chiumenti, University of Udine, Italy

Tuesday October 18, 2016

TRACK 1 Caribbean Ballroom 1

8:30 AM - 10:15 AM

Business Of Biogas

Moderator: Nora Goldstein, BioCycle

Rolling the Dice: Using Risk Tolerance To Define Commissioning Scope
Wayne Dunn, E. W. Dunn

ReFED Roadmap: Exploring Economic Analysis Of Centralized AD
David Stead, Resource Recycling Systems

Utilizing PPPs To Maximize Value Of Existing WWTP AD Infrastructure
Richard H. Cisterna, Renewable Organics Infrastructure

What's New In Tax Laws For Biogas Industry?
Kathy Parker, Rodman CPAs

TRACK 2 Caribbean Ballroom 2

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American Biogas Council

Streamlining AD Project Development — Critical Components

Moderator: Craig Frear, Regenis

Financing: Complexities, Nuances of Capital Markets
Ben Vitale, Wastewater Capital Management, LLC

Evaluation And Assessment: Feasibility Analysis, Technical Review, Feedstock Supply
Charles Opferman, Greenfire Management Services, LLC

Coproducts: Value-Added Sales, Product Development
Robert Joblin, Magic Dirt

Technology Response: Meeting Regulatory And Market Demands
Steve Dvorak, DVO, Inc.

EPC Contracting: Operations/Maintenance, Project Development
Craig Frear, Regenis

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Food Recovery, Organics Recycling Infrastructure

Moderator: Lorenzo Macaluso, Center for EcoTechnology

Food Recovery, Organics Management Trends In North Carolina
Jorge Montezuma, North Carolina Department of Environmental Quality

Building Anaerobic Digestion Capacity: Why Data is Critical
Melissa Pennington, U.S. EPA Region 3

Don't Waste Food SC Campaign
Richard Chesley, South Carolina DHEC

American Biogas Council All-Member Meeting

Moderator: Patrick Serfass, American Biogas Council

2016 Year In Review

ABC Activities, Strategies For 2017 — Member Input, Planning

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1:45 PM - 3:30 PM

AD Facility Development

Moderator: Craig Bartlett, Region of Durham, Ontario

Public-Private Partnership for AD + Composting Project In Prince William County, VA
Ljupka Arsova, Gershman, Brickner & Bratton, Inc.

Matching AD Technology To Site Realities In Hawaii
Andy Naden, BioEnergy Hawaii and Michael Krismer, Thöni

Planning Food And Green Waste Facility In California — Lessons Learned
Thomas Gratz, Hitachi Zosen Inova USA, LLC

Biogas Project Development in Argentina: Opportunities, Case Study
Franco Borrello, Cleanergy Renovables S.A.

Carbon Benefits Of Anaerobic Digestion

Moderator: Tony Callendrello, NEO Energy

AD Project Eligibility And Revenue Opportunities In The Carbon Markets
Brian KillKelley, NativeEnergy, Inc.

Carbon Profile Of AD Compared To Other Waste Management Options
Swarupa Ganguli, U.S. EPA Office of Resource Conservation and Recovery

Digesters And GHG Reductions
Mark Stoermann, Newtrient, LLC

A Carbon Case For AD In A Warming World
David Babson, U.S. Department of Energy

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4:00 PM - 5:45 PM

The Biogas Roadmap — Where Has It Led?

Moderator: Chris Voell, U.S. EPA AgSTAR

Hard look at goals of U.S. government's August 2014 Biogas Opportunities Roadmap and where stakeholders stand in addressing identified barriers to further deployment of AD and biogas systems across the U.S. Panelists from across the industry will share opinions and address audience questions.

Robert Joblin, Magic Dirt
Christopher Maloney, Digested Organics
Norma McDonald, OWS, Inc.
Chris Voell, U.S. EPA AgSTAR

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12 Ways to Kill a Digester

Moderator: Paul Greene, CDM Smith

Maintaining Operations Excellence At High Profile Digester
Mark Stoermann, Newtrient, LLC

Lessons Learned At Challenging Project Locations
Bernard Sheff, ES Engineering Services

Contamination Control And Best Practices At Farm Based Codigestion Sites
Derek Hundert, PlanET Biogas USA Inc.

TRACK 3
Caribbean Ballroom 6

TRACK 4
Caribbean Ballroom 7

8:30 AM - 10:15 AM

Agricultural Digestion

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

Small-Scale AD To Manage Agricultural Wastes:

Final Case Study Report

Sabrina Eichenauer, Technische Hochschule Mittelhessen
(University of Applied Sciences)

100% Chicken Litter-To-Biogas Facility

With Nitrogen Recycling

Ikka Virkajärvi, Ductor Oy

Swine Waste Project Connects To Natural Gas Pipeline

Gus Simmons, Cavanaugh & Associates, P.E.

Poultry Power: Northern Ireland Case Study

Anders Peter Jensen, Xergi A/S

Organics Collection And Processing

Moderator: Craig Coker, BioCycle

Rockin' Rural Food Scrap Commercial Collection

Elisa Seltzer, Emmet County DPW

City-Sponsored Food Scraps Drop Off At Farmers Markets

Michelle Minstrell, Waste Knowledge LLC

Cocollection Of Organics With MSW:

Project Economics, GHG Benefits

Jim Wollschlager, Organix Solutions

Optimizing Codigestion Of Urban Organic Waste

Temesgen Fitamo, Technical University Of Denmark

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Compost, Biosolids And Digestate Utilization

Moderator: Craig Coker, BioCycle

Research Update: Citrus Greening And Compost Utilization

Monica Ozores-Hampton, University of Florida/IFAS/SWFREC

Biosolids And Compost As Site Amendments

For Tree Plantations

Donald Rockwood, Florida FGT LLC/University of Florida

Regulatory Restrictions On Phosphorus:

Market Impacts For Recycled Organics

Ned Beecher, North East Biosolids & Residuals Association

Optimizing Digester Operations

Moderator: Nora Goldstein, BioCycle

**Evaluating Air Quality, Climate And Economic Impacts
Of Biogas Management Technologies**

Michael Kosusko, U.S. Environmental Protection Agency

Deploying Innovative Odor Reduction Technologies

Alan Johson, quasar energy group

Combining Technologies To Improve

Digestion Efficiencies, Recover Nutrients

Robert Lems, DMT Clear Gas Solutions

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1:45 PM - 3:30 PM

Anaerobic Digestion Research

Moderator: Craig Coker, BioCycle

Micro-Aeration To Reduce Hydrogen Sulfide

In Dairy Manure Digesters

Walter Mulbry, USDA/ARS

Hydrothermal Post-Treatment Of Solid Digestate

To Maximize Methane Yield

Serge Guiot, National Research Council Canada

Dry AD Pilot Measures Methane Production

Using Unsorted Food Waste, Bioenergy Crop Residues

Kimberley E. Miller, Ohio University

Biodegradation And Subsequent Biomethane Production

From Anaerobically Digested Biopolymers

Anne Schauer-Gimenez, Mango Materials

Commercial Organics Diversion In Florida

Moderator: Keyna Cory, Florida Recycling Partnership

Infrastructure Realities For Supermarket Organics

Kim Brunson, Publix

Commercial Food Waste Collection Initiative

Ian M. Jurgensen, Orlando Office of Sustainability & Energy

Food Scraps Separation And Collection Strategies

Frank Santelli, Walt Disney World

Commercial Organics Processing

Panel Discussion

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Wednesday October 19, 2016