

TUESDAY OPENING PLENARY

Mt. St. Helens Ballroom

9:00 AM - 10:15 AM

The Power Of Organics

Moderator: Nora Goldstein, BioCycle

Oregon's Renewable Energy Vision

Ruchi Sadhir
Energy Advisor,
Office of Oregon Governor Kate Brown

Mapping Food Waste Recovery And Recycling Opportunities

Cheryl Coleman
Director, Resource Conservation
& Sustainability Division, U.S. EPA

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

TRACK 1 Washington Room

TRACK 2 Clark Room

Organized By
American
biogas
Council

11:00 AM - 12:15 PM

21st Century Infrastructure

Moderator: Paul Slyman, Metro

Sustainable Infrastructure Deployment

Rhys Roth, Center for Sustainable Infrastructure,
The Evergreen State College

Food Scraps Processing Procurement

Lisa Heigh, Metro

Business Of Feeding The Soil

Pierce Louis and Tyler Miller, Dirt Hugger

Federal Biogas Policies: Paths Forward

Moderator: Amy McCrae Kessler, Turning Earth

Panel Discussion

Maureen Walsh, American Biogas Council

Cheryl Coleman, Resource Conservation
& Sustainability Division, U.S. EPA

David Babson, U.S. Department of Energy

Jim Lemon, BTR Energy

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

1:45 PM - 3:30 PM

The Bigger Picture

Moderator: Rosalynn Greene, Metro

Managing Biogenic Materials:

Store Carbon, Burn It Or Both?

Jeffrey Morris, Sound Resource Management Group

Entering The Anthropocene With Power Of Organics

Evan Edgar, California Compost Coalition

Urban Matters

Sally Brown, University of Washington

Biogas Markets In China

Yifeng Shou, Hangzhou Energy & Environmental Engineering Co.,
Ltd.

Organic Certification Of Digestate Products

Moderator: Nora Goldstein, BioCycle

Organic Materials Review Institute (OMRI) Process And Policies

Daniel Nguyen, OMRI

Commercial Opportunities With OMRI Listing

Ron Alexander, R. Alexander Associates

Digestate Classification And The NOSB: Panel Discussion

Robert Joblin, Cenergy USA and Magic Dirt Horticultural Products

Anthony Callendrello, NEO Energy and Great Bay Fertilizer

Daniel Nguyen, OMRI

Ron Alexander, R. Alexander Associates

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

4:15 PM - 6:00 PM

Contamination Management

Moderator: Bob Barrows, Oregon Department of Environmental Quality

Cost Of Contamination — A Composter's Reality

Fran San Diego, Agri Service

Implementing A "Food Waste Only" Policy

Paul Ehinger, Metro

Contaminant Reduction In Commercial Food Waste Stream

Tracie Onstad Bills, SCS Engineers

Curbside Contaminant Reduction Strategies

Pierce Louis, Dirt Hugger

Jim Winterbottom, Waste Connections

States Advance Digester Development

Moderator: Nick Elger, U.S. EPA AgSTAR

Policies And Incentives To Advance AD In California

Jenny Lester Moffitt, Deputy Secretary, California Department of
Food and Agriculture

Biomethane Roadmap For Washington State

Jim Jensen, Washington State University Energy Program

Oregon Inventory Of Biogas

And Renewable Natural Gas Resources

Daniel Avery, Oregon Department of Energy

Anaerobic Digestion Policies In Northeast States

Alex DePillis, Vermont Agency of Agriculture, Food & Markets

Sponsored By



Biogas Industry Awards Dinner* • JB's Night Club • 6:00 PM - 9:00 PM

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Growing A Soils Revolution

David Montgomery
University of Washington
MacArthur Fellow and Author



NOTE: Speaker biographies are listed alphabetically beginning on page 24.

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

TRACK 3 Clackamas Room

TRACK 4 Multnomah Room

11:00 AM – 12:15 PM

Substrate Treatment

Moderator: Angel Arroyo-Rodriguez, Ohio Environmental Protection Agency

**Thermal Pretreatment
Of High Cellulosic AD Feedstocks**
Wilton McVoitte, McGill University

**Biogas Production Rates
Using Variable Food And Brewery Waste**
Kimberly Miller, Ohio University

**Reducing Ammonia Load In
Poultry Manure Substrate Digesters**
Thijs Wolbrink, Nijhuis Water
Technology B.V.

Wasted Food Prevention

Moderator: Shaunna Sutcliffe, City of Gresham (OR)

Oregon DEQ's Wasted Food Prevention Strategy
Elaine Blatt, Oregon Department of Environmental Quality (DEQ)

Wasted Food Measurement And Messaging Study
Ashley Zanolli, Oregon DEQ

Prevention Tools And Practices
Andrew Shakman, LeanPath

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1:45 PM – 3:30 PM

Feedstock Procurement, Preprocessing

Moderator: Gregg Hayward, City of Gresham (OR)

Municipal Fats, Oils And Grease Collection Cooperative
David McNeil, City of Tempe (AZ)

Design Feedstock Contracts For Project Success
Jeffrey Burnham, Anuvia Plant Nutrients

**Source Separated Organics: Pretreatment Options
For Low Solids AD**
Joerg Blischke, Black & Veatch

Food Waste Depackaging Trials
Bob Spencer, Windham (VT) Solid Waste Management District

Food Scraps Recovery Journeys

Moderator: Holly Stirnkorb, Metro

**Challenges And Opportunities Of Wasted Food:
Alameda County Case Study**
Susan Blachman, Blachman Consulting

Growing Portland's Food Scrap Collection Programs
Ariane Sperry, City of Portland (OR)

Transitioning From Public To Private Food Scraps Collection
Bruce Westcott, Central Vermont Solid Waste Management District

**Public/Private Partnership
Launches Correctional Facility Composting**
Angel Arroyo-Rodriguez, Ohio Environmental Protection Agency

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

4:15 PM – 6:00 PM

21st Century Water Resource Recovery Facilities

Moderator: Ned Beecher, North East Biosolids & Residuals Association

Surpassing Energy Net Zero At Oregon WRRF
Alan Johnston, City of Gresham (OR)

Upgrading Plant Assets To Build Utility Of The Future
Matt Choma, Lucas County (OH)
Alan Johnson, quasar energy group

Roadmap To Successful Codigestion
Brian Meek, Avant Energy

Project Development Tools And Realities

Moderator: Lauren Toretta, CH4 Biogas

**AD Evolution:
Adapting To Market Opportunities**
Steffen Busk Nielsen, Xergi A/S

What Do Investors Seek?
Kathy Parker, Rodman CPAs

**Organics Law:
Defending Digesters, Digestate, And Compost**
James Slaughter, Beveridge & Diamond, P.C.

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*Ticketed event, hosted by ABC — tickets can be purchased at ABC desk

BIOCYCLE REFOR17 CONFERENCE

Tuesday October 17, 2017

8 : 3 0 A M - 9 : 4 5 A M

Compost And Digestate Markets

Moderator: Nora Goldstein, BioCycle

Compost Market Trends And Niches

Ron Alexander, R. Alexander Associates

Limited Composting Treatment

Of Anaerobically Digested Manure Solids

Craig Frear, Regenix and **Tera Lewandoski**, Scotts

Substituting Hydroponic Nutrient Solution

With Vermicompost Tea

Norman Arancon, **Johnathan Shestokes** and **Chad Converse**, University of Hawaii at Hilo

Leading At The Local Level

Moderator: Susan Robinson, Waste Management

County Actions To Comply

With California Organics Mandates

Clark Ajwani, Los Angeles County Public Works

Integrated Approach

To Accelerating Food Scraps Recovery

Jennifer Erickson, Metro

RNG Production At Municipal WTP

Jeremy Holland, HDR Inc., **Mary Moerlins**, NW Natural and **Vu Han**, City of Portland (OR), Environmental Services

C o f f e e • G r a n d B a l l r o o m • 9 : 4 5 A M - 1 0 : 3 0 A M

1 0 : 3 0 A M - 1 2 : 1 5 P M

Farm Digestion

Moderator: Cara Gillen, U.S. EPA Pacific Southwest Region

Farm Digestion Trends, Successes In The U.S.

Nick Elger, U.S. EPA AgSTAR

Multistage AD Technology For Dry Lot AFOS

Matthew Lewis, **Rong Xi Wu** and **Sybil Sharvelle**, Colorado State University

Fine Solids, Phosphorus Recovery For Manure Digestate

Craig Frear, Regenix

Independent Utility Fosters Dairy Digester Development

Dagoberto Calamateo, SMUD

Project Financing:

From Soup To Nuts, And Small To Large

Moderator: William Jorgenson, Vanguard Renewables

Panel Discussion

Damon Yuzon, Equilibrium Capital

Tom Emmons, Pegasus Capital Advisors

John Dannan, Generate Capital

Joshua Dale, Rabobank

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

Integrating Anaerobic Digestion And Composting

Moderator: Bob Barrows, Oregon Department of Environmental Quality

Reconfiguring In-Vessel Composting Facility

To Post Digestate Processing

Robin Szmids, Target Renewables Ltd

Anaerobic Digestion + Composting:

Technology Integration Trends

Amy McCrae Kessler, Turning Earth

Adding AD To Existing Composting Plants — Case Studies

Martin Hagenmeyer, STRABAG Umwelttechnik GmbH

Hybrid System To Optimize AD

And Composting Infrastructure

Paul Oostelbos, Plexus Recycling Technologies

Fuel Of The Future is Here: Latest RNG Developments

Moderator: Craig Frear, Regenix

Panel Discussion

Don Rendall, Vermont Gas

Charles Love, Trillium

Dave Unger, WM Renewable Energy

Brad Couch, Ariel

Clarke Pauley, CR&R Environmental Services

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 - 5 : 3 0 P M

Closing Roundtable: Locking Down Project Essentials

Moderator: Nora Goldstein, BioCycle

Panel Discussion

Feedstock Suppliers

Brett Hogarth, Ecostrat

Performance Guarantees — Design, Construction

And Keeping Lawyers At Bay

Paul Greene, CDM Smith

Investor Perspectives, Power And RNG Offtakes

Janice Tran, Generate Capital

Digestate Offtakers

Ron Alexander, R. Alexander Associates

TRACK 3
Clackamas Room

TRACK 4
Multnomah Room

8:30 AM - 9:45 AM

Small-Scale Anaerobic Digestion

Moderator: Nick Ibister, City of Gresham (OR)

Small-Scale Biogas In Haiti
George Garland, HEART

Small Farm-Scale Biogas
In North Carolina

Barry Febos, Appalachian State University

On-Site AD: Case Studies

Srirup Kumar, Impact Bioenergy, Inc.

AD Biorefineries, Nutrient Recovery

Moderator: Meghan Borato, City of Gresham (OR)

Dairy-Based Biorefinery
Yields Multiple Products
Mark Stoermann, Newtrient

Phosphorus Removal Using Flue Gas Desulfurization
Gypsum

Fuqing Xu, The Ohio State University

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10:30 AM - 12:15 PM

Biogas Market Incentives, RNG Supply

Moderator: Susan Alexander, Lamoille Regional (VT) Solid Waste Management District

Mitigating Risk In Emerging Environmental Markets
Peter Weisberg, The Climate Trust

Investing In The LCFS: Biogas Project Valuation And Market Potential

Paul Niznik, Argus Consulting Services

Agrifood RNG For Transportation Demonstration Program
Chris Duke, Ontario Ministry of Agriculture, Food & Rural Affairs

Canadian Biogas Market Stimulants

Maxime Lemonde, BiogasWorld

Biogas Utilization — Technology Options

Moderator: Bob Spencer, Windham (VT) Solid Waste Management District

Structuring A High BTU Biogas Project
Robert Lems, DMT Clear Gas Solutions

Biogas To Hydrogen:
Expanding Biogas End Uses
Lauren Turner, Air Liquide

Hydrogen Sulfide And Siloxane Removal Innovations
Adam Klass, Unison Solutions

Benefits And Costs Of Organic

Rankine Cycle Engine
Josh Rapport, CleanWorld

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1:45 PM - 3:30 PM

**Project Feasibility,
Feedstock Analyses**

Moderator: Angel Arroyo-Rodriguez, Ohio Environmental Protection Agency

Assessing Biogas Project Potential
For Tribal Communities

Charles Opferman, FCPC Renewable Generation, LLC
Ljupka Arsova, Gershman, Brickner & Bratton, Inc.

Feeding The Renewable Future: Analysis Of Biomass
Feedstocks

Dana D'Souza, Skumatz Economic Research Associates, Inc. (SERA)

Estimating Food Waste Yields
From New Collection Programs

Tim O'Neill and Geoff Hill, ECS

**Field Testing
Compostable Products**

Moderator: Nora Goldstein, BioCycle

Importance Of Scientific Standards
In Compostability Certification:

A Brief History
Rhodes Yepsen, Biodegradable Products Institute

Open Source Field Testing Protocol
For Composting Facilities

Emily McGill and Susanna Carson, BSI Bio

Biodegradability of Compostable Resin In AD Systems

Christian Garaffa, Novamont

Compostable Products
For Small-Scale Systems

Mark Williams, BioBag

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4:00 PM - 5:30 PM

Wednesday October 18, 2017