**Tuesday, October 17, 2017**

**Biocycle REFOR17 Conference**

**9:00 AM – 10:15 AM**

**TUESDAY OPENING PLENARY**

Mt. St. Helens Ballroom

**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

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

**Track 2**
Clark Room

1:45 PM – 3:30 PM

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David Babson, U.S. Department of Energy
Jim Lemon, BTR Energy

**1:45 PM – 3:30 PM**

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

**1:45 PM – 3:30 PM**

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

**4:15 PM – 6:00 PM**

**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

**4:15 PM – 6:00 PM**

Biogas Industry Awards Dinner* • JB’s Night Club • 6:00 PM – 9:00 PM

*Ticketed event, hosted by ABC — tickets can be purchased at ABC desk
## TUESDAY OPENING PLENARY

**Mt. St. Helens Ballroom**

9:00 AM – 10:15 AM

### Growing

**A Soils Revolution**

David Montgomery  
University of Washington  
MacArthur Fellow and Author

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

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### Track 3

**Clackamas Room**

11:00 AM – 12:15 PM

#### Substrate Treatment

**Moderator:** Angel Arroyo-Rodriguez, Ohio Environmental Protection Agency

- **Thermal Pretreatment**  
  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:** Shauna 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 Zanoli, Oregon DEQ

- **Prevention Tools And Practices**  
  Andrew Shakman, LeanPath

### Track 4

**Multnomah Room**

11:00 AM – 12:15 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 Stinklomb, Metro

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

- **Growing Portland’s Food Scrap Collection Programs**  
  Arienne 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

### Buffet Lunch

**Grand Ballroom**

12:15 PM – 1:45 PM

### Coffee

**Grand Ballroom**

10:15 AM – 11:00 AM

### 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)

- **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, PC.

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### Biogas Industry Awards Dinner*

**JB’s Night Club**

6:00 PM – 9:00 PM

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<th>Time</th>
<th>Track 1 Washington Room</th>
<th>Track 2 Clark Room</th>
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| 8:30 AM – 9:45 AM| **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, Regenis 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 WWTP*
Jeremy Holland, HDR Inc., Mary Moerlins, NW Natural and Vu Han, City of Portland (OR), Environmental Services

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**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, Regenis

*Independent Utility Fosters Dairy Digester Development*
Dagoberto Calamateo, SMUD

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**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

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**Integrating Anaerobic Digestion And Composting**
Moderator: Bob Barrows, Oregon Department of Environmental Quality

*Reconfiguring In-Vessel Composting Facility To Post Digestate Processing*
Robin Szmidt, 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

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**Fuel Of The Future is Here: Latest RNG Developments**
Moderator: Craig Frear, Regenis

*Panel Discussion*
Don Rendall, Vermont Gas
Charles Love, Trillium
Dave Unger, WM Renewable Energy
Brad Couch, Ariel
Clarke Pauley, CR&R Environmental Services

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**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
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 Stoeermann, Newtrient
Phosphorus Removal Using Flue Gas Desulfurization Gypsum
Fuqing Xu, The Ohio State University

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

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 Tepsen, 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