

TUESDAY OPENING PLENARY

Mt. St. Helens Ballroom

9:00 AM - 10:15 AM

Building Climate Resilient Communities

Moderator: Nora Goldstein, BioCycle

Shaping A Region's Sustainable Future

Kathryn Harrington
Metro Councilor,
Portland, Oregon

Pathway To Climate Resilient Infrastructure

Rhys Roth
Center for Sustainable Infrastructure,
The Evergreen State College

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

TRACK 1 Washington Room

TRACK 2 Clark Room

11:00 AM - 12:15 PM

Compost Use In Green Infrastructure

Moderator: Nora Goldstein, BioCycle

How Green Infrastructure Alleviates CSO Challenges

Jennifer Belknap Williamson, Bureau of Environmental Services,
City of Portland

Understanding, Managing Nutrient Release

Sally Brown, University of Washington

Next Frontier For Compost-Based

Best Management Practices

David McDonald, Seattle Public Utilities

Biosolids Composting Trends

Moderator: Maile Lono-Batura, Northwest Biosolids Management Association

Biosolids Compost Opportunities On The Oregon Coast

Mike Miller, City of Florence (OR)

Mark Cullington, Kennedy Jenks

Market Trends For Class A Biosolids And Worm Castings

Ron Alexander, R. Alexander Associates, Inc.

Composting Human Manure In Haiti

Joseph Jenkins, Joseph Jenkins, Inc.

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

1:45 PM - 3:30 PM

The Bigger Picture

Moderator: Matt Korot, Metro

Metro's Solid Waste Roadmap:

Making The Most Of What We Don't Want

Tom Chaimov, Metro

Environmental Impacts

Of Food Waste Management Systems

Pete Pasterz, Oregon Department of Environmental Quality

Los Angeles County's Path

To Sustainable Waste Management Future

Clark Ajwani, Los Angeles County, Department of Public Works

Uberization Of The Waste Industry

Evan Edgar, Organic Waste Solutions

Composting Emissions Management

Moderator: Robert Horowitz, CalRecycle

Composting Facility Passes California Air Permitting Morass

Jacqueline McMillen and Chip Clements, Clements Environmental

GHG Emissions From Green Waste Composting

Mary Matava, Agri Service

Jilei Shan and Mario Iacoboni, Los Angeles County Sanitation Districts

Positive Air, Biofilter Layer

And Biosolids Composting Emissions

C.E. Schmidt, Emission Assessment Scientist and Tom Card, Environmental Management Consulting

Anthony Cordova, Synagro

Food Waste Composting R&D Project And Emissions

Assessment Tool Box

Greg Kelly, Northern Recycling

C.E. Schmidt and Tom Card

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

4:15 PM - 6:00 PM

Organics Disposal Bans And Mandates

Moderator: Nora Goldstein, BioCycle

Tracking Organics Disposal Bans: National Update

Zoë Neale, Mass Organics Solutions, LLC

Securing a Stable Supply of Food Scraps:

Challenges and Opportunities

Jennifer Erickson, Metro

Measuring Effectiveness Of Seattle's Organics Ban

Luis Hillon, Seattle Public Utilities

Metro Vancouver Disposal Ban: Onsite Organics

Management Options For Businesses

Terry Fulton, Tetra Tech EBA

Veronica Baker, Metro Vancouver

Odor Management

Moderator: Robert Horowitz, CalRecycle

Lessons Learned On Road To Zero Odor

Greg Mariotti, Orgaworld Canada Ltd.

On-Site Odor Sampling And Analysis

Scott Kerr and Geoff Hill, Harvest Power

Composting Facility Odor Review

Theresa Koppang, Washington County (OR)

Post-Mortem Facility Odor Analysis

Tim O'Neill, Engineered Compost Systems

BioCycle Tap Takeover • JB's Night Club • 6:00 PM - 8:00 PM

TUESDAY OPENING PLENARY

Mt. St. Helens Ballroom

9:00 AM – 10:15 AM

Wasted Food Prevention And Community Resiliency

Ashley Zanolli
U.S. EPA Region 10

Jordan Figueiredo
EndFoodWaste.org,
FeedBackGlobal.org

27th Annual BIOCYCLE WEST COAST CONFERENCE 2015

April 13, 14, 15, 16, 2015 • Portland, Oregon

NOTE: Speaker biographies are listed alphabetically beginning on page 19.

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

TRACK 3 Clackamas Room

TRACK 4 Multnomah Room

11:00 AM – 12:15 PM

Farm Digestion Trends

Moderator: Bob Barrows, Oregon Department Of Environmental Quality

National Trends In Livestock Manure AD

Allison Costa, U.S. EPA AgSTAR

Dairy Digester R&D Program — Partnerships For Success

Geetika Joshi, California Department of Food and Agriculture

Limiting Risks Of Codigestion

Victoria Elliott, PlanET Biogas USA

Community Composting And Urban Agriculture

Moderator: Stephanie Rawson, Metro

ReSoil Sacramento — Community Composting In California's Capital

David S. Baker and **Scott Thompson**, GRAS

Organics Exchange In Southern California

Jessica Toth, Solana Center For Environmental Innovation

Panel Discussion

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

1:45 PM – 3:30 PM

Wastewater Treatment Plant Codigestion

Moderator: Allison Costa, U.S. EPA AgSTAR

Putting Waste To Work At WWTPs

Dave Moldal, Energy Trust of Oregon

Achieving Net Zero Via Energy Efficiency, Codigestion

Alan Johnston, City of Gresham (OR) Wastewater Services Division

Tacoma's Organics To Energy Project

Jetta Antonakos, City of Tacoma (WA)

Impacts Of Codigestion On Sludge Viscosity

Keith Albretsen, WesTech Engineering, Inc.

Food To People, Food To Soils

Moderator: Amanda Hong, U.S. EPA Region 9

Sparking The Food Waste Revolution In The U.S.

Jordan Figueiredo, EndFoodWaste.org

On The Journey To Zero Food Waste

Ana Carvalho, City of San Diego

Eat Your Fish, Compost The Bones

Kathryn Myrsell, Westport (WA) Aquarium

Strategies To Reduce Waste And Hunger

Renée Bogin Curtis, Fork It Over, Portland State University

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

4:15 PM – 6:00 PM

Biogas To Vehicle Fuel

Moderator: Matt Tracy, Metro

Investing In RNG To Fleet Fuel Infrastructure

In Portland Region

Matt Tracy, Metro

Advancing Low Carbon Fuel Standards

Peter Moulton, Washington State Department of Commerce

Jana Gastellum, Oregon Environmental Council

Biogas Optimization: From Flare To Fuel

Vu Han, City of Portland (OR) BES

Paul Suto, **Muriel Gueissaz-Teufel** and **Jeremy Holland**, HDR Engineering

Building, Operating A Biogas RNG Fueling Station

— Lessons Learned

Andrea Stephenson, C & S Waste Solutions

Managing Organics On-Site

Moderator: Carla Castagnero, AgRecycle

On-Campus Composting For Zero Waste 2020

Bradley E. Angell, University of California, Santa Cruz

Organics Recycling And Sustainability In Prisons

Dan Pacholke, Washington State Department of Corrections

Composting Food Waste At Philadelphia Correctional Facility

Peter Moon, O2 Compost

Estimating Generation Rates,

Material Quality At Large Institutions

Kentson Yan and **Kristine Wichuk**, Edmonton Waste Management Centre of Excellence & University of Alberta

BioCycle Tap Takeover • JB's Night Club • 6:00 PM – 8:00 PM

TRACK 1 Washington Room

TRACK 2 Clark Room

8:30 AM - 10:15 AM

Contaminant Accounting And Tracking

Moderator: Roy Brower, Metro

SSO Contaminant Mitigation And Management
Daryl McCartney, University of Alberta & Edmonton Waste Management Centre of Excellence

Contamination and Compost Markets
Ron Alexander, R. Alexander Associates, Inc.

**Root Of Physical Contamination
In Collected Organics**
Mary Harrington, Washington State Department of Ecology

Regulating Contaminant Limits In Compost
Ken Decio, CalRecycle

Composting Operation Innovations, Trends

Moderator: Carla Castagnero, AgRecycle

Successful Compost Heat Recovery
Gaelan Brown, Agrilab Technologies and CompostPower.org

**Use Of High Carbon Ash To Remediate Pesticide-
Contaminated Soils**
Andrew Carpenter, Northern Tilth

Growing A Compost Manufacturing Company
Pierce Louis, Dirt Hugger

**Composting, Compost And The Food Safety
Modernization Act**
Andy Bary, Washington State University

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

11:00 AM - 12:15 PM

Building Climate Resilient Communities

Moderator: Nora Goldstein, BioCycle

**Outputs Of Organics Recycling As Inputs
For Resilient Communities**
Chad Kruger, Washington State University

Climate Math To Drive Community Action
Sally Brown, University of Washington

Fostering Sustainable Living-And-Working District
Sarah Heinicke, Lloyd EcoDistrict
Wade Lange, American Assets Trust

Nutrient Recovery, Compost Tea

Moderator: Allison Costa, U.S. EPA AgSTAR

Advances In Nutrient Recovery At Dairy Digesters
Craig Frear, Washington State University

**Struvite Recovery From Digested Filtrate
At West Boise WWTP**
Jordi Figueras, Pharmer Engineering

Compost Tea Benefits At Guatemala Farm
Cindy Salter, Growing Solutions, Inc.

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

1:45 PM - 3:30 PM

The Contaminant Conundrum

Moderator: Nora Goldstein, BioCycle

Why Regional Agency Went Food-Only
Bruce Philbrick, Metro

**Best Practices For Residential Food Scrap Collection: Case
Studies From U.S. and Italy**
Christian Garaffa and Rhodes Yepsen, Novamont North America, Inc.

Depackaging At Point Of Organics Processing
Dean Foor, JC Biomethane

Life Cycle Costs Of Contaminant Management
Panel Discussion Also Includes:
Edward Wheeler, Lenz Enterprises
Ariane Sperry, City of Portland

Compost Use In Agriculture

Moderator: Susan Christensen, Oregon Department Of Environmental Quality

Agricultural Compost Research And Outreach Project
Hallie Harness and Andrew Corbin, WSU Snohomish County Extension

Metro Study: Increasing Compost Use On Food Crops
Jeri Sawyer, ENVIRON International Corporation

Building Relationships With Large-Scale Organic Growers
Zach Bagley, Olam West Coast, Inc.

Biodegradable Mulch Films For Organic Ag Production
Lindsay Fernandez-Salvador, Organic Materials Review Institute

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

4:00 PM - 6:00 PM

Considerations, Innovations On Road To Zero Waste

Moderator: Pete Pasterz, Oregon Department Of Environmental Quality

Residential Food Scrap Collection: Portland's Experience
Ariane Sperry, Portland Bureau of Planning and Sustainability

Building Demand Side For Compost Product
Stephanie Scafa, City of Eugene (OR)

**The Great Composting Fight
In Palo Alto**
Matthew Krupp, City of Palo Alto (CA)
Jim Binder, J. Binder Consulting LLC

**Assessing Waste Materials:
A Road Map To Maximizing Waste Reductions And Prevention**
Moonrose Doherty, Community Environmental Services

Digestate, Coproducts Use In Agriculture

Moderator: Bob Barrows, Oregon Department Of Environmental Quality

Uses And Markets For Agriculture-Based Digestate Products
Jim Jensen, Washington State University Energy Program

Anaerobic Digesters As Chemical Factories
David Border, DBCC

**Digestate Standards Development —
ABC Workshop Outcomes, Next Steps**
Norma McDonald, American Biogas Council/OWS

TRACK 3 Clackamas Room

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

Anaerobic Digestion Of MSW Organics

Moderator: Jim Jensen, WSU Energy Program

Renewable Power From Waste: A California Update
Jacques Franco, University of California, Davis

Procuring An AD Plant: A Public Authority's Perspective
Ljupka Arsova and Tom Reardon, Gershman, Brickner & Bratton, Inc.

Versatility In Feedstock Processing: Scotland Case Study
Joergen Fink, Xergi A/S

Anaerobic Digestion Of Autoclaved MSW
Kevin Holtman, U.S. Department of Agriculture

TRACK 4 Multnomah Room

Advancing Food Scraps Recovery

Moderator: Ashley Zanolli, U.S. EPA Region 10

Reducing Wasted Food & Packaging Toolkit
Amanda Hong, U.S. EPA Region 9

**State Coalition Moves The Needle
On Food Scraps Diversion**
Jennifer Nelson, Seven Generations Ahead

Battling Wasted Food In Iowa
Dan Nickey, Iowa Waste Reduction Center

Special Events Bring Organics Stream Into Mainstream
Abbie Beane, The Offset Project

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

11:00 AM - 12:15 PM

Integrating AD And Composting

Moderator: Angel Arroyo-Rodriguez, Ohio EPA

Integrating AD And Composting: Netherlands Case Study
Peter Chromec, Hitachi Zosen Inova U.S.A., LLC

Integrating AD And Composting: France Case Study
Norma McDonald, OWS

**High Solids Digestion And Food Waste Recycling:
Germany Case Study**
Robin Szmidi, Target Renewables Ltd.

Creating A Community Of Curbside Composters

Moderator: Sego Jackson, Seattle Public Utilities

**Interactive Panel-Audience Discussion On
"Closing the Loop" With Curbside Composting Customers:
From Food Scraps to Loving Compost**

Panel:
Molly Brumley, C+C |Public Relations & Social Marketing
Mary Ranahan, Cedar Grove Composting

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

1:45 PM - 3:30 PM

Digester Operations And Management

Moderator: Douglas Ross, Freestate Farms LLC

Start-Up Of Biogas Plant — Avoiding Pitfalls
Torsten Fischer, Krieg & Fischer Ingenieure GmbH

Optimizing Mixing And Reducing Power Input
Eilert Balsen, XYLEM, Inc.

Evaluating Additive To Increase Biomethane Yields
Parker Dale and Jay Johnston, Bio-Organic Catalyst, Inc.

Biochemical Methane Potential Of Commercial Food Waste
Michael Keleman, InSinkErator

Accelerating Adoption Of Climate Resilient Practices

Moderator: Maile Lono-Batura, Northwest Biosolids Management Association

Wasted Food Reduction Tools To Push Past The Tipping Point
Andrew Shakman, LeanPath

Public-Private Partnership Model
Alan Johnson, quasar energy group

Local Renewable Energy Projects Bring Benefits To Community
Marco Lemes, Sacramento Municipal Utility District

Employing Gamification Strategies
Panel Discussion

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

4:00 PM - 6:00 PM

AD Project Financing, Market Incentives In Pacific Northwest

Moderator: Dave Moldal, Energy Trust Of Oregon

Managing Moving Parts Of AD Facility Financing
Michael Land, Baker Tilly

Feedstock, Biogas Production Incentives Update
Andrew Warren, Oregon Department Of Energy

Natural Gas Utility Funding Initiatives
Bill Edmonds, NW Natural

Urban Wood Waste Management

Moderator: Paul Ehinger, Metro

How Should Portland Chuck Its Wood?
Andy Sloop, Metro

Bringing Gasification Project To Silicon Valley
Stephanie Molloy, City of San Jose (CA)

Biochar Applications
Tom Miles, TR Miles Technical Consultants, Inc.

Wednesday April 15, 2015