

Proceedings of the U.S. Composting Council's 16th Annual Conference & Tradeshow

Center City Marriott
Oakland, California

February 10-12, 2008



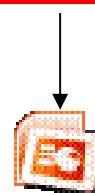
US Composting
Council

PROGRAM AGENDA (SCROLL DOWN)
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Sunday | February 10 | Plenary Session

CRITICAL ISSUES IN COMPOSTING & ORGANICS RECYCLING

8:30 am – 9:45 am **Plenary Session: Emerging Issues** **East Hall**

Moderator: Matt Cotton, USCC President

What Compost can do for the World: The Green House Gas & Sustainability Connection.

Dr. Sally Brown, Washington State University, WA



BROWN_1

Track 1 | ODOR CONTROL, FACILITY DESIGN, & PROCESS MANAGEMENT

10:30 am – 12:15 pm **Odor Management and Control** **Jewett Ballroom ABC**

Moderator: Jeff Gage, Swanson Bark

Practical Field Tools Used to Troubleshoot Odor Problems.

Todd Williams and Jan Allen, CH2M Hill



WILLIAMS_T

Biological Odor Control for Municipal Composting.

Daryl Letto and Derek Webb, BIOREM Technologies, ON, Canada



LETTO



LETTO

Odor Measurements, Analytical Interpretation and Control Procedures.

Eliot Epstein, Epstein Environmental Consultants, FL



EPSTEIN

The Importance of Public Outreach in Effective Odor Control Strategy.

R. Kapahi, Air Permitting Specialists, CA & Mark Levin, NCM Odor Control



KAPAH

1:45 pm – 3:30 pm **Improving Compost Facility Management** **Jewett Ballroom ABC**

Moderator: Jerry Bartlett, Cedar Grove Composting

Conducting Operational Audits of Composting Facilities.

Craig Benton, Composting & Recycling Consultants, Inc, Ireland.



BENTON_1

Health and Safety Plans for Compost Facilities.

Jack Hoeck, Rexius Forest Products, OR



HOECK

Relationship Between Moisture and Odor - How to Manage Both in Parallel.

Scott Gamble, CH2M Hill



GAMBLE

Comminution: the First Step In Composting.

Larry Cumming, Peterson Pacific, OR






CUMMING






4:15 pm – 6:00 pm		Improving Composting Process Design and Performance		Jewett Ballroom ABC	
Moderator: Todd Williams, CH2M Hill					
Optimizing Biofilter Performance Through Effective Air Distribution System Management.	<i>Patrick Byers, Palm Beach County, FL, M. Hernandez & K. Leo, CDM, FL</i>			BYERS	HERNANDEZ
Examining the Effects of Em*1® (Effective Microorganisms). Microbial Inoculant for Composting Green Waste.	<i>Jeremy Murdock, K & M Remediation, CA</i>			MURDOCK	
Composting: The “Right” Decision for Fairfield.	<i>Daniel O'Brien, Siemens Water Technologies, MA; Geoffrey Kuter, Agresource, MA, R. White, Fairfield, CT; D. Dievert, Wright Pierce, CT</i>			OBRIEN	

Sunday | February 10

Track 2 | FOOD RESIDUALS COLLECTION & COMPOSTING





10:30 am – 12:15 pm		Food Residuals Composting in the U.S.		Jewett Ballroom DE	
Moderator: Rhonda Sherman, North Carolina State University					
Food Recovery Infrastructure and Experience	<i>John Connolly, JF Connolly & Associates, Hampton, NH</i>			CONNOLLY	
Plano's Commercial Organic Food Recycling Program – Key Advances Utilizing Biodegradable Bags & Training Programs.	<i>Chris Day, City of Plano, TX</i>			DAY	
Advances in Food Residuals Composting: Decreasing Carbon Emissions through Launch of Household Vermicomposting Program.	<i>Brenda Lotito, Upstate Worm Farms, Syracuse, NY</i>			LOTITO	

1:45 pm – 3:30 pm		Food Residuals Collection & Composting		Jewett Ballroom DE	
Moderator: Michele Young, City of San Jose					
An Eco-Efficiency Analysis of Food Waste Collection & Disposal	<i>C. Bradlee, K. Edwards, D. Steinmetz, BASF Corporation, & J. Connolly, JFC & Associates</i>			BRADLEE	
“Only in my Backyard”: An Opportunity to Achieve Zero Waste in Residential Food Scraps	<i>Dennis Sauer, Central Vermont Solid Waste Management District, VT</i>			SAUER	
Practical Application of Research Results on Composting Food Residuals	<i>John Crockett, Mother Nature's Farms, NY</i>			CROCKETT	

In-Vessel Food Residuals Composting on a University Campus	<i>Nicholas Smith-Sebasto, Montclair State University, NJ</i>	 SMITH-SABASTO
4:15 pm – 6:00 pm Commercial Food Waste Collection Jewett Ballroom DE		
Moderator: Jack Macy, City of San Francisco		
Norcal's Commercial Food Waste Collection Strategy.	<i>Chris Levaggi, Norcal Waste Systems, CA</i>	 LEVAGGI
Working with Commercial Food Generators.	<i>Steve Sherman, Environmental Science Associates, CA</i>	 SHERMAN
Why the Hilton/Marriott Collects Food Scraps.	<i>Deborah Kaufman, StopWaste.Org, CA</i>	 KAUFMAN
The Evolution of Commercial Food Waste Collection Programs in the Seattle Metropolitan Region.	<i>Amity Lumper, Cascadia Consulting Group, WA</i>	 LUMPER

Sunday | February 10

Track 3 | INNOVATIVE COMPOST APPLICATIONS & BENEFITS OF COMPOST USE

10:30 am – 12:15 pm Compost Characteristics and Use Jewett Ballroom FGH		
Moderator: David Hill, Cycle Logic Marketing & Consulting		
Compost Use: Introduction of a New Agricultural Production System for Small Farms Growing Fruits & Vegetables Using Compost	<i>Rod Tyler, Filtrexx International, OH</i>	 TYLER
Efficacy of Compost Against Phytophthora Root & Crown Rot on Bell Pepper Production in South Florida	<i>Ronald French-Monar, Texas A&M University, TX</i>	 FRENCH-MONAR
When it Comes to Disease Suppression, Not All Compost Teas are Created Equal	<i>Heba Ibrahim & Henry Sun, Desert Research Inst., Las Vegas, NV; A. O'Callaghan, University of Nevada Cooperative Extension, Shouhua Wang, Nevada Department of Agriculture</i>	 IBRAHIM
Engineered Soils and Landscape Systems	<i>Wayne King, EARTH Products, GA</i>	 KING_W
1:45 pm – 3:30 pm Stormwater Management, Improving Water Quality & Bioremediation Jewett Ballroom FGH		
Moderator: Brian Larrimore, CIWMB		

Removal of Nutrients by Amended Green Waste Compost	<i>Zhimang Gu, Fatih Büyüksönmez and Ed Beighley, SDSU, CA</i>	 GU
Compost Usage by the California Department of Transportation (Caltrans).	<i>Scott Dowlan, Cal Trans, CA</i>	 DOWLAN
USDA-ARS Research on Storm Water Pollutant Removal Effectiveness of Compost Filter Socks	<i>Britt Faucette, Filtrexx International, OH</i>	 FAUCETTE

4:15 pm – 6:00 pm Benefits And Applications Of Compost Use Jewett Ballroom FGH


Moderator: Monica Ozores-Hampton, University of Florida

Effects of Composted Greenwaste Applied as a Bermudagrass Soil Amendment.	<i>Janet Hartin, UC Cooperative Extension, CA</i>	 HARTIN
Cost Analysis for Using Compost for Growing Trees in Florida.	<i>Donald Rockwood, D. Carter, M. Langholtz, B. Becker, & Mandreau, Univ of Florida, Gainesville and M. Ozores-Hampton, Univ of FI, Immokalee, FL</i>	 ROCKWOOD  ROCKWOOD
Compost as a Natural Soil Amendment	<i>Dale Arnold and Kathy Kellogg Johnson, Kellogg's Garden Supply, CA</i>	 ARNOLD
Animal By-Product Compost Results in Increase in Grain Yield.	<i>Adrian Parker. University of Abertay, Scotland, UK</i>	 PARKER  PARKER

Sunday | February 10


Track 4 | AAPFCO Update, ANIMAL MORTALITY COMPOSTING, "TOOLS OF THE TRADE", & FACILITY SITING






7:15 am - 8:15 am Understanding the AAPFCO New Bulk Composting Rules and Regulations and how it can affect Your Composting Business Simmons 1-3

Update on recent AAPFCO (State Departments of Agriculture professional association) initiatives, labeling issues, nutrient and pesticide claims and competing interests	<i>Ron Alexander, R. Alexander Associates, NC</i>	 ALEXANDER_1
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10:45 am – 12:30 pm Trends in Animal Mortality Composting & Other Feedstocks Simmons 1-3






Moderator: Bob Holmes, CIWMB

Effects of Seasonal Variation of Ambient Temperature on the Composting of Bovine Mortalities	<i>John Kirk. Veterinary Medicine Extension, University of California, Davis</i>	 KIRK
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A Comparison of Two Farm-Based Compost Methods to Address White Perch <i>Morone Americana</i> Mortalities, Generated From Biomanipulation Efforts in Maine	Mark King, Maine DEP/Maine Compost Team	 KING_M
Animal Mortality Composting	Dr. Michael Paine, UC Davis	 PAINE
Trends in Animal Mortality Composting & its Role in Emergency Response.	Jean Bonhotal, Cornell Waste Management Institute, N.Y	 BONHOTAL
Application of Small-Scale Composting to Manage Curcuma Farm's Residue Waste.	Banjarata Jolanun, Rajamangala University of Technology, Thailand	 JOLANUN  JOLANUN


1:45 pm – 3:30 pm Tools of the Trade Simmons 1-3

Moderator: Matt Cotton

Managing Data by Generated by Wireless Temperature Probes	Chris Hibbard, Engineered Compost Systems, WA	 HIBBARD
Evaluation of Moisture Sensors for Applications in the Composting Industry	Michael Bryan-Brown, Green Mountain Technologies, VT	 BRYAN-BROWN_1
How to Take a Proper Compost Sample	Carrie Gregory, LRI, WA	 GREGORY
Measuring Oxygen /CO2 in a compost pile	Jeff Gage, Swanson Bark Products, WA	 GAGE
Stability and Maturity Testing by Solvita®	Brad Price, Woods End Research Lab, ME	 PRICE

4:15 pm – 6:00 pm Forum on Facility Siting and Community Relations Simmons 1-3

Moderator: Jan Allen, CH2M Hill




Public/Private Partnerships in Compost Site Development	Brian Mathews, Alameda County Waste Mgm't Authority, CA	 MATHEWS
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Monday | February 11

Track 1 | MARKETING, BUSINESS & COMPOST USE




8:30 am – 10:00 am Reclaiming the Earth With Compost Jewett Ballroom ABC

Moderator: Tom Kelley, Gro-Well Products

Opportunities in Reclaiming Land with Compost	<i>Ron Alexander, R Alexander Associates, NC</i>	 ALEXANDER_2
Compost Use in Reclamation in Northwest England, UK	<i>Helen Rawlinson, Envirolink Northwest, Warrington, UK.; N. Dickinson, John Moores University, UK; P. Putwain, Eco. Rest. Consultants, Neston, Wirral UK</i>	 RAWLINSON
Models to Estimate Planting Time Delay to Prevent Phytotoxicity of Compost Amended Soil.	<i>D.N. Aslam, CIWMB, Long Beach, CA; T.R. Rumsey and J.S. VanderGheynst, UC Davis</i>	 ASLAM

10:45 am – 12:15 pm The Business of Successful Composting Jewett Ballroom ABC

Moderator: Sharon Barnes, Barnes Nursery

Evaluating Business Opportunities, Extracting Energy and Products with Anaerobic Digestion	<i>Jay Kilbourn, New England Organics, ME</i>	 KILBOURN
Compost, What's the Future? Declining Markets, Increased Competition, how do we adjust?	<i>Chuck Wilson, A-1 Organics, CO</i>	 WILSON
The Business of Successful Product Management for Compost.	<i>David Hill, CycleLogic Environmental Marketing and Consultation, MD</i>	 HILL_1

2:00 pm – 3:45 pm Success in Compost Marketing Jewett Ballroom ABC

Moderator: Bob Engel, Engel and Grey

Value-Based Marketing of Compost Products	<i>Grey Williams, Dextera, Inc., AR</i>	 WILLIAMS_G
Why Compost Marketing Programs Fail	<i>Ron Alexander, R. Alexander Associates, Inc., NC</i>	 ALEXANDER_3
Target Marketing	<i>Tom Kelley, Gro-Well Brands, CA</i>	 KELLEY
Marketing Compost in White House Pennsylvania Avenue Project	<i>David Hill, CycleLogic, MD</i>	 HILL_2

4:30 pm – 6:00 pm Innovative Applications for Compost Use Jewett Ballroom ABC




Moderator: Monica Ozoires-Hampton, University of Florida

Adoption and Implementation of a Post-Construction Soil Standard in King County, WA	<i>Kris Beatty, King County Solid Waste Division, WA</i>	 BEATTY
Revised OMRI Review Standards and Policies for Promotion and Use of Compost by Organic Farmers and Gardeners	<i>Miguel Guerrero, Organic Materials Review Institute, OR</i>	 GUERRERO
Compost Use in Poultry Bedding	<i>Edwin Blosser, Midwest Bio Systems, IL</i>	 BLOSSER
Night Soil and Humanure in a Changing World	<i>Keith Bell, Recycling Programs Inc, FL</i>	 BELL

Monday | February 11

Track 2 | INITIATIVES IN REDUCING GREENHOUSE GAS EMISSIONS, ORGANICS DIVERSION & IMPROVING AIR QUALITY MONITORING AND COMPLIANCE





8:30 am – 10:00 am Organics and Climate Change Jewett Ballroom DE
Moderator: Matt Cotton, Integrated Waste Management Consulting

Greenhouse Gas Emissions, Climate Change, Composting & Organics.	<i>Dr. Sally Brown, Washington State Univ.</i>	 BROWN_2
Carbon Accounting – What it is, why it matters to you	<i>Scott Subler, Environmental Credit Corp, PA</i>	 SUBLER
The Influence of Feed Additives on Animal Wastes Management Environmental Impacts.	<i>Sandra Cointreau, The World Bank, DC</i>	 COINTREAU

10:45 am – 12:15 pm Organics Diversion and Reducing Greenhouse Gas Emissions Jewett Ballroom DE
Moderator: Scott Subler, Environmental Credit Corp.

Ten organics diversion programs you can implement to help you reduce GHG's	<i>Matthew Cotton, Integrated Waste Management Consulting, CA</i>	 COTTON
Climate Change	<i>Brenda Smyth, California Integrated Waste Management Board, CA</i>	 SMYTH
Carbon Offsets Enable Household Organics Recovery Programs to get off the Ground.	<i>J.D. Lindeberg, Resource Recycling Systems, MI</i>	 LINDEBERG

2:00 pm – 3:45 pm		Air Quality and Environmental Impacts	Jewett Ballroom DE	
Moderator: Fatih Büyüksönmez, San Diego State University				
Composting Air Quality Regulations in California.	<i>Julia C. Lester, ENVIRON International Corporation, Los Angeles, CA</i>			LESTER
Permitting Issues Regarding Volatile Organic Compounds Emissions	<i>Chris Choate, Norcal Waste Systems, CA</i>			CHOATE
Gaseous Emissions from Composting Facilities	<i>George Savage, L. Diaz, & L. Eggerth, CalRecovery, CA</i>			SAVAGE

4:30 pm – 6:00 pm		Air Quality Testing, Emerging Regulations and Compliance	Jewett Ballroom DE	
Moderator: Brenda Smyth, CIWMB				
Effect of Surface and Volume Estimation Method on Source Emission Calculation.	<i>Fatih Büyüksönmez and Ed Beighley, San Diego State University, CA</i>			BUYUKSONMEZ
Validation of the Modified USEPA Flux Chamber Technology for Assessing High Advective Flow Sources Such as Biofilters at Compost Sites.	<i>C.E. Schmidt, CA; T.R. Card, Enumclaw, WA; J. Goodwin, Synagro- E&FD Group, CA</i>			SCHMIDT
Development of a New Method for Sampling and Analysis of Amines.	<i>Sucha Parmar, Kristia Parker, and Marcus Hueppe. Atmospheric Analysis and Consulting, Inc., CA</i>			PARMAR

Monday | February 11

Track 3 | In-VESSEL COMPOSTING, ALTERNATIVE TREATMENT TECHNOLOGIES, & ENERGY FROM ORGANICS


8:30 am – 10:00 am		Anaerobic Digestion & Alternative Waste Treatment Technologies	Jewett Ballroom FGH	
Moderator: George Savage, CalRecovery				
Food Waste: A Healthy Alternative for Anaerobic Digesters	<i>Paul Suto, East Bay Municipal Utility District, CA</i>			SUTO
Anaerobic Digestion Process to Recover Materials and Energy from MSW	<i>Melvin Finstein, ArrowBio USA</i>			FINSTEIN
The Role of Food Waste Disposers in Diverting Food Scraps from Landfills to Beneficial Use.	<i>Kendall Christiansen, Gaia Strategies, NY and Bill Strutz, InSinkErator, WI</i>			CHRISTIANSSEN

10:45 am – 12:15 pm

Energy from Organics

Jewett Ballroom FGH

Moderator: Louis Diaz, CalRecovery

Useful Metrics in Estimating Biogas & Power Yields From Organics	<i>Jan Allen, CH2M Hill, WA</i>	 ALLEN
The Integration of AD and Aerobic Composting: Maximizing Energy Recovery and Minimizing Costs	<i>L. De Baere & B. De Wilde, OWS, Gent, Belgium & R. Tillinger, OWS, OH</i>	 DEBAERE
Feasibility Study of a Co-Substrate Renewable Energy Facility in New York	<i>Brandon Moffat, Conestoga-Rovers & Associates, ON, Canada</i>	 MOFFAT

2:00 pm – 3:45 pm

Institutional and On-Site In-Vessel Composting

Jewett Ballroom FGH

Moderator: Jack Hoeck, Rexius Forest Products





On-Site Composting in the Irish Prison Service.	<i>Craig Benton, Composting & Recycling Consultants, Inc. Ireland</i>	 BENTON_2	
Implementing On-Site In-Vessel Composting as a Function of Property Management Operations	<i>Maurice Sampson, Niche Recycling and Waste Reduction Systems, PA</i>	 SAMPSON	 SAMPSON
10 Years of On-Site Composting Experience with the Earth Tub In-Vessel System	<i>Michael Bryan-Brown, Green Mountain Technologies, VT</i>	 BRYAN-BROWN_2	
Small Stationary On-Site In-Vessel Composting in Extreme Weather Conditions	<i>Steve Diddy, Engineered Compost Systems, WA</i>	 DIDDY	

4:30 pm – 6:00 pm

In-Vessel Systems & Alternative Technologies










Jewett Ballroom FGH

Moderator: Lorrie Loder, Synagro

Innovative Covered ASP and Pipe-Less Aeration	<i>Tim O'Neill, Engineered Compost Systems, Inc., WA</i>	 ONEIL
An Alternative – Enhanced Autogenous Thermophilic Aerobic Digestion Turns Food Waste Into Soil Amendment	<i>Jack Walsdorf, Converted Organics, NJ</i>	 WALSDORF
Aerated Cover System for Both Small and Large In-Vessel Composting for Various Feedstocks	<i>Brian Fuchs, Gore™ Cover System of North America, MD</i>	 FUCHS
Automated Mechanical Composting	<i>David Leavell, Farmer Automatic of America, IN</i>	 LEAVELL

Monday | February 11

Track 4 | FOOD SAFETY, SOURCE SEPARATION PROGRAMS, & BIODEGRADABLE PLASTICS

8:30 am – 10:00 am Food Safety		Simmons 1-3
Moderator: Pat Millner, USDA		
Food Safety and Water Quality.	<i>David Crohn, UC Riverside, CA</i>	 CROHN
Food Safety Initiatives Involving Organics	<i>Hank Giclas, Western Growers Association, CA</i>	 GICLAS
Food Safety & Compost: a Growers Perspective	<i>Mike Brautovich, Earthbound Farms, CA</i>	 BRAUTOVICH
10:00 am – 10:45 am Break in Exhibit Hall		West Hall
10:45 am – 12:15 pm Developing Collection & Composting Programs		Simmons 1-3
Moderator: Monica Ozores-Hampton, University of Florida		
Adapting to Changing Operational Needs and Maximizing Efficiencies	<i>Sue Campbell, Ottawa Valley Waste Recovery Centre, Canada</i>	 CAMPBELL
Co-Collection and Composting of Residential Source-Separated Organics with Yard Waste	<i>Tim Goodman, T. Goodman & Assoc., MN</i>	 GOODMAN
Vermicomposting in First Major U.S. City	<i>Jamie Melvin, Sansai Environmental Technologies, OH</i>	 MELVIN
Starting From Scratch: Developing an Organics Diversion Program	<i>Caleb Werth, Resource Recovery Technologies, MN</i>	 WERTH
2:00 pm – 3:45 pm Experience With Biodegradable Plastics		Simmons 1-3
Moderator: Steve Mojo, Biodegradable Plastics Institute		
Early Adopters Using and Composting Biodegradable Products	<i>Brenda Platt, Institute for Local Self-Reliance Washington, DC</i>	 PLATT
Biodegradable Packaging in Composting Plants: What are the Consequences?	<i>Bruno De Wilde, Organic Waste Systems NV, Gent, Belgium and R. Tillinger, OWS Inc., OH</i>	 DEWILDE

Advancing the Use of Biodegradable Plastics in Composting: Improving In-Home Food Waste Collection Programs

David Williams, BioBag USA, Florida; Jorn Johansen, BioBag International, Norway



WILLIAMS_D

New Resins: Compostable & Diverse in Properties & Applications.

William Kelly, Cereplast Inc., CA



KELLY

4:30 pm – 6:00 pm

Roundtable Discussion on Compostable Plastics

Simmons 1-3

Moderator: Jack Macy, City of San Francisco

Drivers for Biodegradable Plastics and the Role of Composting in Waste Management.

Dr. Ramani Narayan, Michigan State University



NARAYAN