

2010 Pacific Southwest Organic Residuals Symposium

Energy and New Uses of Organic Residuals

Overcoming Cross-Media Challenges

September 14 – 15, 2010

Sacramento Convention Center

Now in its fifth year, the Pacific Southwest Organic Residuals Symposium brings together organic residuals industry professionals, municipalities, regulators, researchers and other stakeholders to collaborate on the best management options for manures, biosolids, food wastes, and other organic residuals. Our special focus this year is improving regulatory coordination in addressing air, water, and resource recovery issues, so as to promote those projects with the greatest overall environmental benefits. We are holding the symposium in downtown Sacramento to encourage dialog with legislators, agency officials, and others involved in environmental decision-making.

We also look at new technologies under development that will reduce emissions and carbon footprints, the mechanisms for moving these projects along, and how to effectively address emerging pollutants and pathogens of concern.

The symposium includes a field trip to Dixon Ridge Farms in Winters, where we will see the innovative BioMax process that produces energy from walnut shells.

The Pacific Southwest Organic Residuals Symposium is sponsored by the U.S. Environmental Protection Agency, Region 9, California Department of Resources Recycling and Recovery, USDA Rural Development, USDA Natural Resources Conservation Service, Central Valley Regional Water Quality Control Board, California Water Institute, Western United Dairymen, BioCycle Magazine, Sustainable Conservation, University of California Davis Extension, California Association of Sanitation Agencies, and Sacramento Municipal Utilities District.

Agenda

September 14, 2010

8:30-9:00 am **Welcome:** Alexis Strauss, Director, Water Division, EPA

Opening Remarks: Ed Burton, CA State Conservationist, USDA NRCS

Presentation of PORS Award: Lauren Fondahl, Chair, PORS Planning Committee, EPA

9:00–9:30 **Overview of Cross-Media Concept Paper:** Karl Longley, CA Water Institute and Jovita Pajarillo, EPA (members of PORS Cross-Media Coordination Team)

9:30-9:45 *Break*

9:45-10:45 **Opening “Debate”**

“Coach”: Glenda Humiston, CA State Director, USDA Rural Development

Debaters: Greg Kester, California Association of Sanitation Agencies; Allen Dusault, Sustainable Conservation; Karl Longley, Central Valley Regional Water Quality Control Board; Dave Warner, San Joaquin Valley Air Pollution Control District; and Paul Martin, Western United Dairymen

10:45-11:00 *Refreshment*

11:00–5:00 pm **Session 1: Cross-Media Regulatory Coordination**

Moderator: Katy Mamen, AgInnovations Network

11:00-11:20 **Case Study: “Challenges to Disposal of Livestock and Poultry Mortalities and Animal By-Products”**: Michael Payne, UC Davis, California Dairy Quality Assurance Program

11:20-11:40 **Case Study: Compost Facilities in Air Quality Non-Attainment Districts**, Layne Baroldi, Synagro

11:40-12:00 Q's and A's

12:00-1:00 *Lunch (hosted)*

1:00-2:15 **Cross-Media Panel 1: Regulatory Agencies**

Moderator: Dee Dee D'Adamo, Member, California Air Resources Board

- Kerry Drake, Associate Director, Air Division, EPA, Region 9
- Winston Hickox, former Secretary, CalEPA
- Mark Leary, Deputy Director, Waste Management Programs, CalRecycle

Q's and A's

2:15-2:30 *Refreshment*

2:30-3:50 **Cross-Media Panel 2: Legislators and Non-Governmental Organizations** (Moderator: Dee Dee D'Adamo)

- Bob Fredenberg, CA Assembly Committee on Environmental Safety and Toxic Materials
- Michael Jarred, Consultant to Senator Corbett (Member), CA Senate Environmental Quality Committee
- Peggy Lauer, Executive Director, WELL Network
- Scott Smithline, Director, Legal and Regulatory Affairs, Californians Against Waste

Q's and A's

4:00-5:00: Discussion with all panelists

5:00-7:00: *Hosted reception, Citizens Hotel, 926 J Street, Sacramento*

September 15, 2010

8:30-9:45 am **Session 2: Regulatory and Legislative Updates**

Moderator: Glenda Humiston, USDA Rural Development

8:30-8:55 **Assembly Bill 222**: Jim Stewart, Bioenergy Producers

8:55-9:20 **Update on GHG Regulations & What Waste Management is Doing About It**: Chuck White, Director, Regulatory Affairs/West, Waste Management

9:20-9:45 **Urban Biomass Conversion Technologies Deployment in California:** Jacques Franco, CalRecycle

9:45–9:55 *Refreshment*

9:55-12:00 **Session 3: Financing Options and New Technologies**

Moderator: Anna Yen, Water Division, EPA, Region 9

9:55–10:20 **Funding Opportunities for Organic Residual-to-Clean Energy Projects:** Kevin Wing, San Joaquin Valley Air Pollution Control District

10:20-10:45 **Rural Energy for America Program (REAP):** Phil Brown, USDA Rural Development, CA State Office

10:45-11:10 **Bay Area Biosolids to Energy—A Coalition Approach to Developing a B2E Project and Funding Pathways:** Caroline Quinn, Delta Diablo Sanitation District

11:10-11:35 **Hydrogasification Systems Research:** Chan Park, UC Riverside

11:35-12:00 **Removal of H₂S from Biogas and NO_x from Engine Exhaust at a Dairy Digester Using Microwave Technology:** Marco Lemes, Sacramento Municipal Utilities District

12:00-12:30 *Lunch (hosted)*

12:30-1:45 **Session 4: Science Updates**

Moderator: Greg Kester, California Association of Sanitation Agencies

12:30-12:55 **Compost Volatile Organic Compounds and Ozone Formation:** Peter Green, UC Davis

12:55-1:20 **Volatile Organic Compounds Research:** Frank Mitloehner, UC Davis

1:20-1:45 **Bioassay Methods for Biosolids:** Tom Young, UC Davis

1:45-5:00 **Field trip to Dixon Ridge Farms**

BioMax Alternative Energy System: Russ Lester, Co-owner, Dixon Ridge Farms. On the bus ride to the farm, Mr. Lester will explain the system for

processing walnut shells for energy, and the permitting issues associated with starting up this project. The bus will return to the Sacramento Convention Center.

To register, go to: http://extension.ucdavis.edu/renewable_energy and open "Energy and New Uses of Organic Residuals Conference." Registration is \$150 prior to July 31, and \$195 after July 31 (full-time high school and college students please contact us for special rates), and includes lunch and refreshment breaks, a Tuesday evening reception at the Citizen Hotel in downtown Sacramento, and the field trip to Dixon Ridge Farms

For more information: Contact Lauren Fondahl at 415 972-3514, fondahl.lauren@epa.gov or Anna Yen, 415 972-3976, yen.anna@epa.gov