US Composting Council
Composter Training Program

PLANNING AND IMPLEMENTING ORGANICS DIVERSION FOR VENUES AND SPECIAL EVENTS

Leslie Lukacs, L2 Environmental

Composting at Events

Social Experience

Events are social opportunities where people are open to new people and ideas.

Composting at Events

Composting

- Still unfamiliar to many
- 50%-60%+ of event discards are compostable
- Introduce new concept!
- Collecting organics at events can divert 75% to 97% of materials from landfill
- Supports zero waste efforts

CalRecycle Event/Venue Study

1.5 pounds per person per event

calrecycle.ca.gov/wastechar/wastestudies.htm

US Composting Council
Composter Training Program

Food makes up the largest percentage

of waste going into municipal landfills and combusted for energy recovery

Data from the 2010 Municipal Solid Waste Characterization Report

Capturing Organics

Most of what is discarded at events is organic!

US Composting Council
Composter Training Program

堆肥 **COMPOST** **ABONO**

QUESTIONS?

RecologySF.com/compost

Sunset Scavenger
(415) 330-1300

Golden Gate
(415) 626-4000

For everything else call or visit:
查詢其他內容, 請致電或瀏覽:
Para cualquier otra cosa llámanos o visita:
SFEnvironment.org/ecofinder

SF Environment
Our home. Our city. Our planet.
A Department of the City and County of San Francisco

Recology
Sunset Scavenger
Golden Gate
WASTE ZERO

Collection Stations

- Three streams (or two) grouped together - No Can Alone!
- Eye level signage - visual and instructive

The Challenge and Opportunity: Capturing Organics

US Composting Council
Composter Training Program

The Challenge and Opportunity:

Beware of Green Washing

Green Stripe on Non-Compostable Cup?

Non-compostable, “BioLOGICAL” plastic fork still
= waste, only more expensive

The Challenge and Opportunity:
Capturing Organics

- USCC Compostable Plastic Toolkit

  http://cptoolkit.org

- Institute for Local Self-Reliance – Sustainable plastics study from production to recycling or composting end of life

  http://www.sustainableplastics.org

- Federal Biobased Products Preferred Procurement Program

The US Department of Agriculture (USDA) BioPreferred Purchasing promoting biobased products over products made from fossil-fuel materials.

http://www.biobased.oce.usda.gov

- Sustainable Biomaterials Collaborative

Network of organizations working together to spur the introduction and use of biomaterials that are sustainable from cradle to cradle.

www.sustainablebiomaterials.org.

The Challenge and Opportunity:
New Materials

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 57%
PACKAGE 32%

ASTM D6866

Test method:
Radio Carbon
dating

COMPOSTABLE
BPI | US COMPOSTING COUNCIL

ASTM D6400

ASTM
D7081

Marine Degradable

US Composting Council
Composter Training Program

The Challenge: New Materials

http://www.sustainablebiomaterials.org/emerging.materials.php

Ideally single-use food ware would be:

- Easily Identifiable to all
- 100% Biobased from rapidly renewable organic content
- OMRI Certified
- ASTM Certified Compostable, Marine Degradable
- High-performing and heat resistant

Resin	Examples	Biobased Content	Biodegradable
Polylactic acid (PLA)	Natureworks Ingeo	100%	Compostable - ASTM D6400
Polyhydroxyalkanoates (PHA)	Telles Mirel	>90%	Compostable - D6400 and Marine - ASTM D7081
	Tianan	100%	
Aliphatic-aromatic copolyesters (AAC)	BASF EcoFlex	0%	Compostable - ASTM D6400
	IRE Chemical EnPol		
AAC/Starch blends	Novamont Mater-Bi	Varies	Compostable - ASTM D6400
AAC/PLA blends	BASF Ecovio	Varies (25–75%)	Compostable - ASTM D6400
	Cereplast Compostables	Varies	
Thermoplastic Starch (TPS)	Cereplast Compostables	Varies	[Both] Compostable - D6400
	DuPont Biomax TPS		[Dupont] Marine - ASTM D7081
Polybutylene Succinate (PBS)	Showa Bionelle	?	Compostable - D6400
Polyamide 11 (PA 11)	Arkema Rilsan	100%	No
Bio-Polyolefins (bio-PO)	Braskem	100%	Neither
	Dow/Crystalev		
Polytrimethyleneterphthalate (PTT)	DuPont Sorona	37%	Neither
	Dupont Biomax PTT		
Polyamide 6,10 (PA6, 10)	BASF Ultramid Balance	63%	Neither
	DuPont Zytel	?	
Conventional plastic/bioplastic blends	Cereplast hybrid resins	Varies	No
Polyether Block Amide	Arkema Pebax Rnew	100%	No

Courtesy of Steve Davies' (SPI Bioplastics Council) presentation to 2011 US Composting Council Conference, "*Overview and context, types of materials (compostable vs biodegradable vs recyclable).*"

US Composting Council
Composter Training Program

Choosing the Right Materials

The Compostable Label

http://www.BPIworld.org

COMPOSTABLE

BPI | US COMPOSTING COUNCIL

TM

Biobased Label

FP

USDA CERTIFIED BIOBASED PRODUCT

PRODUCT 57%
PACKAGE 32%

http://www.sfapproved.com

Sorted Compost

US Composting Council
Composter Training Program

Reusable Food Service Ware

Reusable Food Service Ware

Reusable Food Service Ware

US Composting Council
Composter Training Program

Contact Information

Leslie Lukacs
L2 Environmental, LLC
www.L2environmental.com
Leslie@L2environmental.com
(707) 484-0441