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Closing the Loop on Paper
Foodservice Packaging

Annie White
Coalition for Resource Recovery
www.thecorr.org
Global Green USA’s Coalition for Resource Recovery

www.thecorr.org

• Industry working group dedicated to transforming waste into assets.

• Conduct pilots to identify and accelerate development of scalable, transferable waste diversion programs and technologies.
COALITION for RESOURCE RECOVERY

Fiber: 700 Tons/day
Plastic: 300 Tons/day
Metal: 100 Tons/day
Glass: 70 Tons/day

Wholesale

Food: 1,100 Tons/day

Food Waste

NYC Opportunity
15,000 tons/day

Restaurant & Retail
2,400 tons/day

Food Packaging

Plastic Bags

CoRR's Programs
## A Coalition of Members

<table>
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<tr>
<th>Action Carting</th>
<th>HAVI Global Solutions</th>
<th>Pret A Manger</th>
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<tr>
<td>BASF</td>
<td>International Paper</td>
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<td>Bemis</td>
<td>Interstate Container</td>
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<td>Chemol</td>
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<td>Clean River</td>
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<td>Systems</td>
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<td>DBB Partners</td>
<td>Pratt Industries</td>
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<td>Design &amp; Source</td>
<td>Pratt Institute</td>
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<td>Dow Corning</td>
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<td>Western Michigan Univ.</td>
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<td>Duro Bag</td>
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Paper Foodservice Packaging Recycling Initiative Overarching Goal:

Recycle paper foodservice packaging into valuable, high-quality materials
Targeted Waste Stream: Paper Food Packaging U.S Discards

<table>
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<tr>
<th>Paper Product Category</th>
<th>2009 Discarded Tons</th>
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<tbody>
<tr>
<td>Paper Plates &amp; Cups</td>
<td>1,170,000</td>
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<tr>
<td>Folding Cartons</td>
<td>2,490,000</td>
</tr>
<tr>
<td>Bags &amp; Sacks</td>
<td>460,000</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>4,100,000</strong></td>
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EPA Municipal Solid Waste 2009 Facts and Figures
Transforming Problem into Design Criteria

- Restaurants/Bars
  - Cash or reduced refuse hauling fee
  - Enhanced recyclability & low contamination
  - ≥ Value to OCC

- Private Carter Collection
  - No additional truck trips
  - Considered part of existing grade; plastic bag contaminant eliminated

- Sorting Facility
  - No or minimal sorting

- Deliver high value material to mills
  - Commercial, private sale
Initial Concept Tested through NYC Pilots

- Paper packaging pre-screened for recyclabaility

- Restaurants bag their spent paper food packaging in 100% recycled content paper bags

- Bags of spent packaging are collected and recycled with its old corrugated cardboard (OCC)

- The benefit: Reduced waste costs for restaurants, valuable fiber added to recycling stream, and a net greenhouse gas benefit.
Material Pre-Screen

Collect with OCC

In-Store Design

Recycle
• Post-consumer material collected utilized for mill tests for a variety of end markets, including:
  – Medium
  – Linerboard
  – Deinked pulp
  – Tissue
  – Folding cartons
FBA Protocol Purpose

• “To evaluate the repulpability and recyclability of moisture barrier treatments or coatings applied to liners or combined corrugated board in an effort to establish a minimum threshold for moisture barrier treated or coated corrugated that is intended, and labeled, to be recyclable into other paper products.”

Text from this section of the presentation is excerpted from the FBA Protocol document: http://www.corrugated.org/Upload/Files/Wax Alternatives Standard.pdf
It Started With The Cup
This paper is made with 20% Starbucks cups!

Annie,

Thank you for being the first organization to explore this great opportunity to help the environment that has not been tried before. Western Michigan University appreciates your untiring efforts to help save our planet!

On behalf of WMU I would like to thank Global Green CoRR for the opportunity to be part of this! WMU looks forward to continuing the battle and sending you sheets made with clam shells, French fry boxes and all fiber based QSR packaging!

Joel Kendrick
Boxes & Cups
Starbucks & Pret A Manger In Store Tests

>80% Paper from both Starbucks & Pret A Manger Waste Sorts. Individual bags with >90% paper observed.
Food Contamination & Microbials
Utilizing post-consumer material meeting Dairyman’s Standard

Minimize Sorting & Maximize Inventory Turns

- Piggyback on existing paper grade broadly accepted
- Construct bag to carry material that eliminates need to open it.
- Initiatives underway to optimize sorting at single stream facilities when sorting is needed.
Mill Interest

- Tissue, containerboard, deinked pulp, and other emerging processes all are requesting feedstock for mill trials.
- The bottle neck is material for the test.
Fall 2011

150 Store, 5 Brand, 7 Packaging Type Test in New York City
What we need from you

• Recyclable packaging, specifically, a cold cup
• Mills interested in testing material
• Join CoRR and get involved
Upcoming Events

• June 7th – Members’ Food Packaging Meeting

• Summer 2011 – Recyclable Wholesale Transfer Packaging: Follow that Box Field Trips

• Summer 2011 – Commercial Food Waste Recovery Meeting

• Nov. 2011 – Members’ Food Packaging Meeting