OSC formed the Packaging Collaborative to remove petroleum-based plastic from landfills, oceans, and our planet by securing compostable and renewable flexible film structures with appropriate barrier qualities.

Today, the Packaging Collaborative is comprised of over 40 leading companies in the natural products industry. We believe that the best way to address packaging is to share our learnings and steer the industry towards leading-edge solutions.
QUANTIFYING THE PLASTIC POUCH PROBLEM

50% of all municipal waste is packaging

- Cradle to Cradle, William McDonough
- Globally more than 150 billion stand up pouches are used every year, growing 9%

In the United States, 26 billion pouches are thrown into landfills with no regenerative potential, and only 9% of plastics created has ever been recycled.
LANDFILL & OCEAN PLASTIC GROWTH IS EXPONENTIAL
• Plastic/PET pouches are laminated with different plastic layers that cannot separate, making them impossible to recycle
• Recycling facilities aren’t set up to accept recyclable flexible plastic
• Industrial composting is harder for consumers to access; yard waste programs and company take back programs can support home compost
• Backyard composting can promote a virtuous cycle replenishing biological nutrients
INPUTS & END-OF-LIFE: MULTI-LAYER FLEXIBLE FILM
“I come from an environmentally conscious background and my contribution to the packaging problem contradicted my beliefs to a point where I was ready to leave the industry. But then I met Jeanne/Alter Eco and it clicked. Developing compostable solutions activated my purpose and calling and is why I’m still in the business today.”

Brett Shaffer, Elk Design

**Sustainable Packaging R&D Partners**

- **Material Manufacturer Partners + Converters**: Futamura, Elk Packaging, Dunn Paper, Plastic Suppliers Inc.
- **NGO’s**: BPI, CMA, USCC, ASBC, Recology
- **Brands/Owners**: 35+ leading natural foods brands

**COLLABORATION IS THE KEY TO SUCCESS**
PACKAGING COLLABORATIVE ACHIEVEMENTS

Created Industry movement of leading brands toward advancing compostable packaging

Fostered key partnerships across the compostable package supply chain: Associated Labels, Elk Design, Futumura, BioBag, Novamont, etc.

Developed & tested 4 compostable pouch versions with 18+ ingredients

Presented certifications guidelines for compostable structures

Line-tested overwrap applications and optimized structure for triplex teabags

Advanced Compostable Packaging Advisory Board

Assisted Launch of Gone4Good (Alter Eco) & Leaf No Trace (Numi Tea) campaigns

Flexible Packaging Comparative study for climate and end of Life
2 PRIMARY PACKAGING WORKSTREAMS:

Stand Up Pouch:
5 versions and 18 ingredients tested

Overwrap for Tea & Bars:
25 + ingredients tested
OBJECTIVE: QUALIFY NEWLY COMMERCIALIZED COMPOSTABLE MATERIALS BY DETERMINING

1. Fitness for Use
2. Appropriate Barrier (shelf life under ambient and challenge conditions)
3. Co-packing Compatibility
4. Package Integrity Post Challenge

2020 INITIATIVES

ADVANCED SHELF LIFE STUDY

TESTING IN 3 WAVES:
Wave 1 - Complete / Wave 2 - Underway / Wave 3 - Pending

- HDPE testing for recycled pouch/overwrap forms
- Testing to conclude by end of Q2 2020
- Partners at Cornell University will generate comprehensive report on learnings
- Provide Packaging Collaborative members with language and learning to reduce internal/external confusion
2020 INITIATIVES

ADVANCED SHELF LIFE STUDY

PARTICIPATING BRANDS

TESTING IN 3 WAVES
Wave 1 - Complete / Wave 2 – Underway / Wave 3 - Pending
PACKAGING COLLABORATIVE

"GONE 4 GOOD" CAMPAIGN

POUCH MADE FROM COMPOSTABLE MATERIALS
— AVAILABLE NOW —

... because we don’t think packaging should live forever. Announcing the first non-GMO, plant-based, compostable stand-up pouch. Mother Nature approved.
“LEAF NO TRACE” CAMPAIGN

LITTLE WRAPPER. BIG IMPACT.
Sustainably Sourced Eucalyptus
Ethically Sourced Sugarcane Resin
Zero Waste!

We are a small company taking important steps to Leaf No Trace. Join the movement at #LEAFNOTRACE

LEAF NO TRACE
Compostable Tea Bag Wrappers
Consciously crafted from Non-GMO plants, this wrapper reduces waste while preserving taste.

UNWRAP THE PLANET
On average, Americans throw away their own body weight in trash every __________.
A Month  B Year  C Week
Unwrap label for answer.

SAVE $1.00 ON ANY BOX OF NUMI ORGANIC TEA

Numi is a proud founding member of OSC2, a coalition of forward-thinking brands working together to change the face of packaging.

Our new innovation would not have been possible without the work of our partners at ELK Packaging. For more information:

WWW.ELKPACKAGING.COM  INFO@ELKPACKAGING.COM
THE RFF INNOVATION WORKSHOP is an unprecedented approach to bring an industry together and support a collaborative effort towards positive change.

FEBRUARY 20 - JUNE 8, 2020
Our group collaborated, ideated and co-created on a web-based, interactive innovation platform, with the focus to generate new ideas and solutions for zero-waste in Flexible Film packaging.

JUNE 8, 2020 - DECEMBER 21, 2020
Our group collectively identified 8 Incubation Project, covering topics like policy, consumer awareness, financing, design, and labeling to break down the barriers to scaling sustainable material solutions.
RFF Summit Updates

Packaging Collaborative

Redefining Flexible Films

Incubation Projects

Crowdfunding for Research & Development of New Compostable Materials
Team Lead: Evan White

Driving Change through a Consumer Awareness Campaign
Team Lead: Renaud des Rosiers

Developing a Packaging Labeling System
Team Lead: Myf Bradbury

Cross-Stakeholder Field Test for Compostable Packaging
Team Lead: Dan Kurzrock

Policy: Tax & Fee Based Incentives for Compostable Packaging
Team Leads: Darcy Shiber-Knowles and Alyssa Harding

Composting Education in Schools
Team Lead: Katherine Roop

Developing a Compostable Multi-Pack
Team Lead: Wesley Skjodt

Soil-Centric Compostable Packaging
Team Lead: Lauren Tucker

Reducing GHG Emissions with Active Biopackaging
Team Lead: Viirg Kan

Flexible Film Texture & Gradient: "Flexture"
Team Lead: Anne-Marie Daniels
NEW EVENT FORMAT & DESIGN THINKING APPROACH

REMOTE COLLABORATION
A carefully crafted event combined with an adaptation of the design thinking process allows for remote collaboration, optimal participation and richer results.

INDUSTRY LEADERSHIP
We rallied together a wide variety of perspectives from across the flexible film value chain to work together towards a greater goal. We'll build a team and walk together.

EXPERT FACILITATION
We will provide leading-edge educational information throughout the workshop about flexible films, manufacturing and material management. A shared, trusted foundation of knowledge and language will provide a strong baseline and trajectory.
2021 INITIATIVES

Program Expansion - New brands & new packaging materials, launch Plastics Innovation Page in Q2 of 2021 to support a holistic approach to packaging

Test & Learn - Explore viability of emergent materials and their end of life impact through shelf life testing, and launch field testing partnership with the Composter Manufacturing Alliance (CMA) to encourage recovery of compostable CPG packaging

Develop and Launch Plastic Free July Campaign - Includes consumer facing tips, brand highlights, and policy and advocacy engagement opportunities
## 2021 EVENT CALENDAR

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>February 25</td>
<td>Quarterly Meeting #1: Material Tradeoffs + the Value of LCA's</td>
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<tr>
<td>TBD</td>
<td>Circular Packaging Design - OSC Department Forum Speaker Series</td>
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<tr>
<td>March 25</td>
<td>Lunch &amp; Learn #1: Innovative Materials Overview</td>
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<tr>
<td>May 27</td>
<td>Quarterly Meeting #2: The Business Case for Sustainable Packaging - ROI + Costing</td>
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<tr>
<td>June 17</td>
<td>Lunch &amp; Learn #2: Policy Advocacy</td>
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<tr>
<td>August 26</td>
<td>Quarterly Meeting #3: Packaging Commitments + Goal Setting</td>
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<tr>
<td>September 23</td>
<td>Lunch &amp; Learn #3: Consumer Insights and Retail Trends</td>
</tr>
<tr>
<td>October 21</td>
<td>Sustainability Certifications 101 - OSC Department Forum Speaker Series</td>
</tr>
<tr>
<td>November 18</td>
<td>Quarterly Meeting #4: A Year in Review and 2022 Plans</td>
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MEMBERSHIP BENEFITS

Community

- **Member Meetings:** Quarterly Meetings + Bimonthly ‘Lunch & Learns’ to grow your sustainable packaging knowledge and share industry best practices (including topics like costing, policy, consumer insights and more)
- **Collaboration:** Make connections to thought leaders, material partners, and infrastructure NGO’s for systems-level solution building
- **Campaigns:** Engagement in annual Zero Waste awareness campaigns and policy initiatives

Material Development

- **Field Testing:** Access to composter Field Testing with the Composter Manufacturer Alliance (CMA) at a discounted rate
- **Shelf Life Testing:** Access to Shelf Life Testing at a discounted rate
- **LCA Support:** Access to Packaging System Optimization projects with LCA partner Trayak at a discounted rate
- **Reports + Case Studies:** Exclusive Member Packaging Studies on environmental impact, marine/soil degradation, shelf performance and more
# Membership Dues

## New Member
- $4,500 if >$300MM Rev
- $3,500 if >$50MM Rev
- $2,800 if <$50MM Rev
- $2,250 if <$5MM Rev

## Renewing Member
- $4,000 if >$300MM Rev
- $3,000 if >$50MM Rev
- $2,500 if <$50MM Rev
- $1,800 if <$5MM Rev
LEARN MORE AT

ONE STEP CLOSER™

PACKAGING COLLABORATIVE

www.OSC2.org/packagingcollaborative
Thank you to our partners!