Creating a Materials Samples Collection

To Support the Engineering Curriculum
About Olin
About Olin’s Library
Early Collection Concept
Course Integration

Two-way Use with Courses in:

- Materials Science
- Design
- Sustainability
The Interim Solution

Inventables

Material Connexion

Ecolect
Physical Organization: Lessons from Visits

- Display
- “Public” Storage
- Workroom Storage
Materials Science Student Work

- Faculty interviews
- Student interviews
- Collection organizational philosophy
- Metadata thoughts for the database
- Challenges
Virtual Storage: The Database I

<table>
<thead>
<tr>
<th>Applications</th>
<th>Composition</th>
<th>Form</th>
<th>Manufacturer</th>
<th>Process</th>
<th>Properties</th>
<th>Technology</th>
<th>Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft exterior</td>
<td>Apparel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Automotive parts</td>
<td>2</td>
</tr>
<tr>
<td>Baby bottles</td>
<td>Bags</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bathroom mirrors</td>
<td>1</td>
</tr>
<tr>
<td>Bedding</td>
<td>Cell Phones</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cell phone covers</td>
<td>1</td>
</tr>
<tr>
<td>DVD Trays</td>
<td>Decorative</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Exterior stainless steel surfaces</td>
<td>1</td>
</tr>
<tr>
<td>Fashion accessories</td>
<td>Freezer doors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Furnishing</td>
<td>9</td>
</tr>
<tr>
<td>Furniture</td>
<td>High heat environments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Home appliances</td>
<td>1</td>
</tr>
<tr>
<td>Improve plant growth</td>
<td>Interior surfaces</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Labels</td>
<td>1</td>
</tr>
<tr>
<td>Oil cleanup</td>
<td>POP displays</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Packaging</td>
<td>4</td>
</tr>
<tr>
<td>Paper products</td>
<td>Product Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Protection</td>
<td>1</td>
</tr>
<tr>
<td>Rubber Products</td>
<td>Sealant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Site Work</td>
<td>1</td>
</tr>
<tr>
<td>Sports equipment</td>
<td>Store fixtures</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Swimming googles</td>
<td>1</td>
</tr>
<tr>
<td>Toys</td>
<td>Warranty Voids</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Waterproofing</td>
<td>1</td>
</tr>
<tr>
<td>Window treatments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Virtual Storage: The Database II

- Site built in the Django framework
- Runs on Python
- Administration panel can be edited and updated without programming knowledge
- Flexible categorization system
- Ability to create custom metadata types
Purchasing versus Building

A pedagogically useful collection cannot exist in a vacuum.

Plans in place...
THANK YOU

Contact:

Dee Magnoni

E-mail: dianna.magnoni@olin.edu

LinkedIn: http://www.linkedin.com/in/deemagnoni

Twitter: @deemagnoni