Annotated Bibliography: Food Waste

Maya Kapur

Dylan Gauthier

PUFY 1011 Section A04, Integrative Seminar 2: Systems and Strategies

6 April 2018

Full Citation	Year	Why this is interesting	Topics/Tags	Description
2007. "Wal-Mart Cutting Packaging." *Pollution Engineering* 39, no. 2: 16. EBSCO*host*.	2007	This is interesting because it shows the possibility to make an impact in a large corporation which is one solution to the issue of packaging waste.	Packaging, Reduction	This article expands on Walmart's progress on their goal of reducing packaging by 5% across 60,000 suppliers worldwide. They want to conserve resources of an initiative of 5 years.
Blanco, Ignazio. 2016. "Lifetime prediction of food and beverage packaging wastes." *Journal Of Thermal Analysis & Calorimetry* 125, no. 2: 809-816. EBSCO*host*.	2016	This is interesting because it shows how important packaging is and can reduce food waste in a more simple manner.	Prediction, Food Waste, Packaging	Blanco explores a study that was conducted in which food packaging can help prevent food waste. It discusses the role of packaging — protection while in transit and storage.
Chaemsanit, Siriporn, Narumol Matan, and Nirundorn Matan. 2018. "Activated Carbon for Food Packaging Application: Review." *Walailak Journal Of Science & Technology* 15, no. 4: 255-271. EBSCO*host*.	2018	This is interesting because it proposes a new alternative that has desired qualities which is one solution to the issue of packaging waste.	Food Packaging, Applications, New Inventions	Packaging made from activated carbon has the ability to naturally degrade, non-toxicity, absorption potential, and low cost. This new invention can prolong shelf-life as well as maintain the quality of food.
Dahlbo, Helena, Valeria Poliakova, Ville Mylläri, Olli Sahimaa, and Reetta Anderson. 2018. "Recycling potential of post-consumer plastic packaging	2018	This is interesting because it proposes a recycling system that could be of more use and better for the environment by the detail set forth in the	Recycling, Packaging Waste, New System	The authors explain Finland's example of a system which has the potential to recycle plastic packaging after it has been created and used based on quantity, composition and mechanical

waste in Finland." *Waste Management* 71, 52-61. EBSCO*host*.		chain which is a solution that adjusts our system already in place.		quality. Optimization of the sustainability chain is important for both the environment and economic impacts.
Dewees, Donald N., and Michael J. Hare. 1998. "Economic analysis of packaging waste reduction." *Canadian Public Policy* 24, no. 4: 453. EBSCO*host*.	1998	This is interesting because it is an example of strict regulations that the United States can follow.	Economics, Packaging Waste, Reduction, Benefits	The article expands on Canada's regulations on packaging waste. Specifically, the authors focus on source reduction, justification of well-designed recycling programs, and promotion policies.
Li, J. X. 2017. "Application of Green Environmentally Friendly Materials in Food Packaging." *Kemija U Industriji* 66, no. 11/12: 611-615. EBSCO*host*.	2017	This is interesting because it proposes a new alternative that has desired qualities which is one solution to the issue of packaging waste.	Applications, Food Packaging, Environment	Tests have been done on poly(lactic acid)/nanocrystalline cellulose composite material for food packaging. They show that the thermal and mechanical properties satisfy FDA requirements as well as being environmentally friendly.
Šuput, D., V. Lazić, A. Jelić, Lj. Lević, L. Pezo, N. Hromiš1, S. Popović1, and M. Nićetin1. 2014. "The Influence of Different Composition and Thickness on Physico-Mechanical, Structural and Barrier Properties of Starch Based Edible Packaging Films."	2014	This is interesting because it proposes a new alternative that has desired qualities which is one solution to the issue of packaging waste.	New Invention, Packaging	Tests have been done on corn starch-based edible films as material for food packaging. They show that the the films are flexible, strong, moderately flexible with good barrier properties to oxygen and water vapour.

Technologica Acta 7, no. 1: 80-86. EBSCO*host*.				
Marsh, Kenneth, and Betty Bugusu. 2007. "Food Packaging — Roles, Materials, and Environmental Issues." IFT. http://www.ift.org/knowledge-center/read-ift-publications/science-reports/scientific-status-summaries/food-packaging.aspx	2007	This is interesting because it gives important background information so we may understand the problem. In addition, it also proposes methods and legislation which is one solution to the issue of packaging waste.	Food Packaging, Environment, Materials, Roles	The article explores the role of food packaging in the food supply chain, the types of materials used in food packaging, and the impact of food packaging on the environment. In addition, it mentions waste management guidelines and packaging disposal methods and legislation.
Wikström, F., H. Williams, and G. Venkatesh. 2016. "The influence of packaging attributes on recycling and food waste behaviour – An environmental comparison of two packaging alternatives." *Journal Of Cleaner Production* 137, 895-902. EBSCO*host*.	2016	This is interesting because it gives us insight into the importance of human involvement in the process of packaging waste. The information is needed so we may better understand the problem and how to approach or fix it.	Packaging, New Inventions, Recycling, Food Waste	The authors explain how consumer behavior influences the amount of packaging waste created. Specifically they compare two different packages for minced meat — a lightweight tube and a tray — and discover that even if one is more effective, when considering human behavior, the tube is better as it has a longer shelf-life.
Yanqun, Su, et al. "Prospects for Replacement of Some Plastics in Packaging with Lignocellulose Materials: A Brief Review." *Bioresources* 13, no. 2 (May 2018): 1-27. EBSCO*host*.	2018	This is interesting because it proposes a new alternative that has desired qualities which is one solution to the issue of packaging waste.	New Inventions, Packaging, Materials	Packaging made from pulp fibers, cellulose nanofibers, and regenerated cellulose films renewable, sustainable and biodegradable. These are good barriers for oxygen, carbon dioxide and water vapor.