ses
school of environmental sciences

The Research Seminar Presentation by

Joshua Arias

will be held on

Wednesday March 30, 2016

At 10:10 am

ALEXANDER HALL 337

Title: Anaerobic Digestion for the Biosecure Disposal of Poultry Mortalities and Renewable Energy Production

In the event of an epizootic outbreak (i.e. Highly Pathogenic Avian Influenza, Foot and Mouth Disease, Porcine Epidemic Diarrhea) effective and biosecure methods for disposal are needed. A deadstock disposal solution which requires further investigation is anaerobic digestion. Anaerobic digestion is a microbiologically driven process similar to the digestion which occurs in the rumen of ruminants (i.e. cattle, sheep), producing methane as a renewable energy source. The goal of this study is to investigate anaerobic digestion as a method for animal mortality management, relieve time-constraint pressures of current disposal technologies (i.e. incineration, composting) and utilize the deadstock to create a source of renewable energy. With further investigation anaerobic digestion can be a deadstock disposal option that inactivates pathogens, is biosecure, has low management requirements, and can be widely implemented on Canadian farms.

Everyone is welcome to attend

(This is a Research Proposal presentation by students in ENVS*6900)