

**BIOvator**<sup>®</sup>  
Bring waste back to life™

**CASE STUDY**

## Augustana **CAMPUS**



**THE UNIVERSITY OF ALBERTA AUGUSTANA CAMPUS IN CAMROSE OFFERS UNDERGRADUATE DEGREES IN ARTS, SCIENCE, MUSIC, AND OTHER DISCIPLINES. PRIMARILY RESIDENCE-BASED, THERE ARE OVER 500 STUDENTS LIVING ON CAMPUS CONSUMING ABOUT 1,200 MEALS PER DAY. *The campus literally generates tons of waste each week.***

Over 65% of the campus' waste is organic, and of that, 80% is from the cafeteria. In 2007, Augustana adopted a progressive approach to waste management. The campus began measures to offset the volume of organic waste going to landfills, starting with a sustainable-food policy to reduce pre-consumer waste and then tackling reduction.

The campus tried other initiatives, like transporting organic waste 93 km north to Edmonton for composting. But the costs were high and the process was inefficient; high shipping costs and other hassles made the project unsustainable. That's when Augustana contacted Nioex™.

### *Enter the BIOVATOR*<sup>®</sup>

After researching in-vessel composters, the campus approached Manitoba-based Nioex Systems Inc., and in early September 2011, the campus installed a BIOvator<sup>®</sup>.

The BIOvator went to work quickly, breaking down over 350 kg of organic waste per day and consolidating over two months of waste into one cylinder. After running into a few snags, the machine was put on half-duty for a short while, as the Nioex team worked to better tailor the unit to the campus' needs.

### *You Can't Make an Omelet...*

Because of the unit's close proximity to residences, odor was a sensitive issue. The source of the smell was from anaerobic bacteria, which would escape when the unit was opened for rotation. The campus was also having problems with compostable bags that were sometimes clogging the unit.

***"Shawn worked with us closely to help improve our efficiency. Nioex developed a biofilter for us - an air-intake to foster growth of good bacteria and good microbes to reduce odor."*** Candice Tremblay, Sustainability Coordinator, University of Alberta Augustana Campus, on Nioex™ customer service.

**BIOvator**<sup>®</sup>  
*Bring waste back to life*<sup>™</sup>



## *Hands-on Troubleshooting*

Nioex President Shawn Compton worked with the campus to establish a better oxygen and nitrogen to carbon balance and improved airspace in the system, helping to reduce smell. In addition to a new air-filtration system, Nioex created a chopper-system to break down bags and larger aggregate (potatoes, corn cobs, etc.), which also helped to eliminate odor.

At Nioex, we know that every organization has its own unique sustainability challenges. That's why we believe in working closely with our clients to ensure custom-tailored solutions—troubleshooting problems, streamlining operations, and working toward optimal efficiency.



### **WITH FIRST-IN-CLASS CUSTOMER SUPPORT**

service and customized solutions to suit your operation, the BIOvator<sup>®</sup> In-Vessel Composter is the down-to-earth solution for organic waste management.

BIOvator is one of the most cost-efficient waste management solutions on the market today, and is in use by over 200 operations across North America. From markets to military bases, hospitals to universities, BIOvator can save operations money and save waste from landfills.

*Find out more at [nioex.com](http://nioex.com) or contact us today*

#### **Nioex Systems Inc.**

Shawn Compton  
[scompton@nioex.com](mailto:scompton@nioex.com)  
1-701-370-0782

#### **Nioex Systems USA Inc.**

John V. Walser  
[jwalser@nioex.com](mailto:jwalser@nioex.com)  
1-507-381-1556

**BIOvator**<sup>®</sup>  
*Bring waste back to life*<sup>™</sup>



**Nioex**<sup>™</sup> Systems Inc  
ENVIRONMENTALLY AND SOCIALLY  
ACCEPTABLE SOLUTIONS