



## **Project Overview**

**Industrial Assessment Team Intern:** Edward Weijian Lee

**Major:** Chemical Engineering

**School:** University of Nebraska Lincoln

## **Project Description**

During the summer of 2011, Edward Lee was a part-time intern with the Partners in Pollution Prevention (P3) Program. He assisted other members of the Industrial Assessment Team with pollution prevention projects and was the lead consultant in two waste assessment projects: new assistance at the Lincoln Airport and a reassessment of a past intern's work at Bike Rack Cycling & Fitness in Lincoln.

The Lincoln Airport Authority (LAA) is the organization that is responsible for the daily operations at the airport which is visited by approximately 20,000 passengers a month. P3 program interns provided assistance to help LAA reduce waste and water and electric usage at their facilities. In the process of developing recommendations for LAA, the intern made several visits to the airport and made contacts with vendors and local contractors.

The reassessment work at Lincoln Bike Rack Cycling and Fitness was completed to identify progress made on implementing recommendations from a previous intern.

## **Pollution Prevention Benefits and Results**

The reduction of water and electric use helps conserve natural resources. Several recommendations were made for LAA, potentially resulting in the following direct pollution prevention and monetary benefits:

- Annual Savings: \$4,700.00
- Annual Water Saved: 1,727,000 gallons

Additional indirect or intangible benefits include:

- Reduced maintenance costs
- Reduced greenhouse gas emissions by 5.4MT Co2E/yr
- Reduced use of non-renewable fuel at power plants