

# Project Overview

During the summer of 2015, David Hansen participated in the Partners in Pollution Prevention program at the University of Nebraska-Lincoln. He was part of the Industrial Assessment Team (IAT). The IAT traveled to various Nebraska manufacturers to analyze Pollution Prevention (P2) and Energy Efficiency (E2) opportunities. The IAT visited the following businesses:

- Neapco - Beatrice, NE
- UNL Machine Shop - Lincoln, NE
- Hughes Brothers - Seward, NE

The entire Industrial Assessment Team (IAT) visited each of these facilities. After the initial visit, the team divided the assessment work among the members. Each team member contributed written sections to each report, as well as compiled at least one complete report.

David's report contributions include: compiling the complete report and machine turning sections for the UNL Machine Shop, the wastewater section for the Neapco report, and the galvanizing waste section for the Hughes Bros report. Below is a table detailing the opportunities and results explored by David.



<b>Company</b>	<b>P2/E2 Opportunity</b>	<b>Recommendation(s)</b>
NEAPCO	Water Waste	Determine amount necessary to cool machines. Eventually switch to close loop systems
UNL Machine Shop	Cutting/cleaning fluids	Dispose of expired fluids
Hughes Brothers, Inc.	Crystal waste diversion	Work with Alchemetrics to send crystals to an industry that will repurpose them.