



Student Awards

ENVIRONMENTAL ENGINEERING 432 Solid Waste Management Fall 2013

In the fall of 2013, University of Alberta (UAlberta) students were given a real-world problem that staff members from UAlberta's Facilities and Operations are facing. Students enrolled in ENV E 432 Solid Waste Management were asked to prepare a conceptual study for an integrated solid waste management system. This included:

- Characterizing the solid waste;
- Estimating the percent recovery of recyclables at a materials recovery facility;
- Designing a composting system for the organic fraction of the waste stream;
- Designing an anaerobic digestion system; and
- Sizing a landfill site and determining greenhouse gas reductions for various diversion scenarios.



"This course allowed us to gain insight into the need for waste management practices, and the challenges that are associated. The need for sustainable engineering design is critical in ensuring the minimization of solid waste".

B. Quaghebeur ENV E432 Student

"I learned the great importance behind waste audits. I found the audits dictate the final design of a solid waste management facility with respect to the methods used to treat solid waste (composting, anaerobic digestion and land-filling)."

J. Hart ENV E432 Student

The Edmonton Waste Management Centre of Excellence (EWMCE) awards financial prizes to the top groups based on overall performance. This year's awards were presented by Dr. Abu Kamal, EWMCE Instructor (Right) and Janice Isberg, EWMCE Director of Operations (Left).

This year's top groups are:

1st Place

Anna Ilnicki
Caitlin Stewart
Erin Curtin
Heather Hordowick
Neil Tomaszewski
Sarah Grass



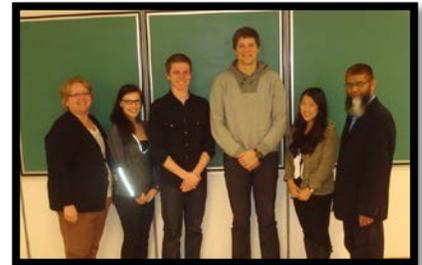
2nd Place



Aron Zhao
Bill (Linfeng Yang)
Caitlin Atkins
Hamid Wardak
Jilynne Whittington
Jonathan Hart

3rd Place

Andrea Virag
Brett Quaghebeur
Keith Ogletree
Kevin Robbins (missing)
Meagan Gebers (missing)
Monique Mah



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