HQP Experience
Scott Cieslar
Project

• Examining impact of selenium on persistency of lactation and immune function in Holstein dairy cows
  – Fed graded levels of Sel-Plex to 80 cows
  – Measured milk and feed. Liver and mammary biopsies
  – Examine cell proteins for indications of oxidative stress and level of apoptosis and proliferation
• Peripheral Projects
  – Selenized milk proteins and human health
    • Breast cancer model in mice
    • Diabetes (IR) model in rats
Work Term

• Farm Trials and Presentations
  – Measured impact of Sel-Plex at farm level on cow performance, milk selenium levels and health parameters
    • Set up trial design
    • Analyzed data
    • Presented findings to veterinarians, feed companies, and producers
  • Work term completed in SW Ontario
  • Traveled to Alltech HQ in KY to discuss findings with staff and customers from around the world.
Opportunity

Producer

- Feed company
- Ingredient suppliers
- NGO
- Veterinary/technical staff
How science integrates with business

Various levels of agri-business

University research directly impacts industry

Multiple career opportunities
Closing Comments

• HQP Course
  – Invaluable exposure to business and case studies
  – Idea to market
  – Business Plan

• Sponsor Company
  – Trial period with new employee
  – Obtain skill set might not otherwise employ

• Student Benefit
  – BUSINESS TRAINING!!!
  – Allows broader perspective of research and direct experience with application of research
  – Clearer idea of career opportunities