**Goal:** Increase focus on links between agricultural practices, raw material inputs, food composition, and human-environmental health.

**Challenge:** Depth *Life and Physical Science USU* requirement, non-scientist population, need to be clear and compelling.

**Actions:**
- Describe link between nitrogen fertilizer, protein synthesis, the Haber Process and environmental impacts.
- Provide information on fat texture and development of trans fats. Explain rationale of industry switch to palm oil, and environmental impacts.
- Develop lecture on high protein diets and their environmental impact. Summarize literature on effects of dietary protein on long-term human health.

**Outcomes:**
- Students will be able to summarize positive and negative impacts of synthetic nitrogen fixation.
- Students will be able to identify why specific fats are used, and how food choices drive demand for fats like palm oil.
- Students will be able to recall results of population studies on protein intake and health, and lack of evidence for high protein diets for improving metabolism.

**Impacts:**
- Students will understand how their local choices affect global processes.
- Students will understand how specific food choices affect agricultural practices worldwide.
- Students will understand that little data supports value of high protein diets, yet impacts to environment are substantial.