

## **Dairy Air Mitigation Techniques**

### **Biofilters:**

- Explain types of biofilters.
- Explain how they work (e.g. vented into from animal housing).
- Explain the different types of media used to filter out GHG and odors (*mostly wood*).
- Explain that studies have shown biofilters reduce greenhouse gases and odors.

### **Digesters:**

- Explain that digesters are primarily done through natural anaerobic processes.
- Explain that additional enzymes can be introduced to speed up the process.
- Studies have shown that digesters reduce greenhouse gases.
- Generators can be added to a digester system to recover methane for personal use.

### **Covered Ponds:**

- Explain stationary liners vs. floating liners.
- Impermeable vs. semi-permeable liners.
- Explain the different materials liners can be made of (geosynthetics, clays, vermiculite).
- Studies have shown that liners can greatly reduce GHG.

### **Animal Housing:**

- Explain how proper ventilation can play a large role in GHG reduction.
- Studies have shown that cleaning housing by scraping manure reduces GHG much better than by washing.

### **Altering Diets: ??????????**

### **Mitigating Dust from Dairy Operations:**

- Proper watering in areas prone to dust.
- Commercial dust suppressants.
- Using trees as a buffer around the dairies.