

The Davis College Catalyst Program Presents:

# MESA – Math & Ecology Synthesis for Agriculture

**Tuesday, April 29**

**5pm** Poster Session + Welcome Reception (with heavy hors d'oeuvres!)

**Wednesday, April 30: Zoonotic Disease**

**9:30am** Luis Chaves, Indiana University, “Agricultural modes of production and trade and the generation of spaces for disease transmission”

**11am** David Rasmussen, NCSU, “Learning the determinants of pathogen fitness from one host to the next”

**1pm** Omar Saucedo, Virginia Tech, “Understanding the dynamics of avian influenza through mathematical modeling”

**Thursday, May 1: Pollen & Pollinators**

**9:30am** Kristin Healy, Louisiana State University “The impacts of stressors on honey bees”

**11am** Amy Veprauskas, University of Louisiana “Quantitative modeling approaches for evaluating species responses to environmental changes”

**Friday, May 2: Eutrophication**

**9:30am** Jason Martina, Texas State University “From Nutrient Sinks to Sources: Understanding Wetland Contributions to Eutrophication in the Great Lakes”

**11am** Jessica Corman, University of Nebraska-Lincoln “Follow the elements: insights on eutrophication from studies of nitrogen and phosphorus cycling”

**1pm** Christopher Heggerud, University of California Davis “Regime shifts in resource explicit ecological systems”

All events take place at the **Dairy Barn**

**Wednesday – Friday**

**Coffee** available beginning 9am

**Lunch** available 12pm

**Interactive networking** activities,  
panel discussions, and snacks

**2:30-4:30 (W, Th) & 12-2 (F)**