

**Multistate Project S-1076:**  
**Fly Management in Animal Agriculture Systems and**  
**Impacts on Animal Health and Food Safety (2019-2024)**

**January 15-17, 2020**

Hilton Garden Inn Orlando at SeaWorld  
6850 Westwood Blvd  
Orlando FL 3281  
Office: 407-354-1500  
Reservations: 800-449-1619

Registration \$128 total through this link:

<http://hiltongardeninn.hilton.com/en/gi/groups/personalized/O/ORLSEGI-MULTI-20200114/index.jhtml>

Special rate code: MULTI

**Additional Information**

Must book room by December 16

Registration must be paid by January 7 (through above link)

3 nights are needed, but the first night is paid by PennState

Link to our google drive - <https://drive.google.com/open?id=1p409NO-ZdJrjZc9aM7jue3YvteYRwtHN>

Attendance / Ride Share / Carpooling information: [link to be updated](#)

For information about the meeting location, contact our Local Arrangements Chair:

Jerry Hogsette (jerry.hogsette@ars.usda.gov)

**Online Connection Information**

1. **Participate from Computer (Flash Required)**

Audio, Video & Content: [to be updated](#)

## **Wednesday: Revisiting the Lincoln document**

### **0830: Welcome** Erika Machtinger (Lead) and Becky Trout Fryxell (assistant)

- Introduction to the project
- The special collections (aka updated Lincoln document) (10min presentation with 20minutes for discussion) – Becky & Erika
  - goal: To provide a reference for grant applications/support as well as a clearinghouse for important and relevant citations.
  - deadlines –
    - Jan.6 – leaders submit draft of manuscript to Becky who will circulate with agenda
    - March - submit manuscripts as a special collection Journal of Integrated Pest Management

### **0900: Team Fannia/dump fly**

- Amy, Alec, and Nancy
- 20 min presentation followed by 40 minutes of discussion

### **15minute break**

### **1015: Team Face fly**

- Becky, DaveB., Wes, and Roger
- 20 min presentation followed by 40 minutes of discussion

### **1145-1pm lunch**

### **1-230 Team House fly**

- Chris, Erika, Dana, Jeff, Alec, Ted, Phil
- 30min presentation followed by 60 minutes of discussion

### **15minute break**

### **245-415pm Team Horn fly**

- Brandon, Justin, Greta, Kelly
- 30min presentation followed by 60 minutes of discussion

### **15minute break**

### **430-6pm Team Stable fly**

- Kateryn, DaveT, Pia, JerryH, Sonya, Phil
- 30min presentation followed by 60 minutes of discussion

## **Thursday Session (0830-1700) – official S1076**

**Breakfast:** starts at **xam** in the hotel restaurant

**0830: Welcome** Becky Trout Fryxell (Chair)

### **S-1060 Officer Reports:**

Alec Gerry (Past-Chair)      Erika Machtinger (Vice Chair)  
Chris Geden (Secretary)      Jerry Hogsette (2020 Local Arrangements Chair)

### **Advisor Reports / Program Leader:**

Dave White (S-1076 Administrative Advisor)  
Herb Bolton (USDA-NIFA National Program Leader)

### **Industry Perspectives**

**Objective Activities:** *Participants will present an update on recent activities related to the multistate project. Presentation limited to **15 min per participant for each objective**. You may present during more than one objective.*

1. **New technologies for management of biting and nuisance flies in organic and conventional systems** (*Watson*)
  - a. Novel push-pull strategies (NE, NC, USDA-NE, USDA-FL)
  - b. Evaluation of improved monitoring systems (USDA-NE, CA, TN, NM)
  - c. Novel toxicants, biopesticides, & delivery systems (FL, PA, NE, NM, TX, USDA-FL, USDA-NE)
  - d. Non-pesticide management options (mechanical) (AU, FL, NC, NE, PA, TN, USDA-NE, USDA-FL, USDA-TX)
2. **Insecticide resistance detection and management** (*Kaufman*)
  - a. Assessment of insecticide resistance (TX, NY, USDA)
  - b. Leveraging the *Stomoxys* and *Musca* genomes for novel control measures (NY, USDA)
3. **Investigation of the microbial ecology, epithelial immunity, and vector competence of biting and nuisance flies** (*Nayduch*)
  - a. Identification of the key bacterial strains and their metabolites playing a major role in oviposition and larval development of stable flies (TX, KS, USDA)
  - b. Investigation of the innate immune response of filth flies (KS, USDA)
  - c. Consequences of fly-bacteria interactions: selection effects and evolutionary outcomes (USDA, TX)
  - d. Animal and human pathogen acquisition, dispersal, and deposition by muscid flies (AU, NC, MA, KS)
4. **Characterize population biology of biting and nuisance flies** (*Taylor*)
  - a. Characterize effects of climate and landscape features on dispersal (KS, TX, USDA-NE)
  - b. Phenology of biting and nuisance flies (AU, FL, KS, TN, USDA-NE)
  - c. Genetic structure of biting and nuisance fly populations (TN, TX, USDA-NE)

**Dinner meet at 6pm in lobby (local eatery to be determined, but it is very likely to be Thai Thani)**

## **Friday Morning Session (0800-1200)**

**0830** - Welcome and plan for the day - Becky Trout Fryxell (Chair)

**0845** - Local Arrangements – Jerry Hogsette

### **0900 – Objective 5. Extension and community engagement (Gerry)**

- a. Improve project website to maximize extension and community engagement
- b. Demonstrate research value to stakeholders and funding decision-makers
- c. Seek funding to support these extension/outreach efforts by developing proposals that will be submitted to various granting agencies including our Regional IPM Centers.

### **1030 - Business Meeting:**

- Selection of 2021 meeting location
- New Business
  - Email list-serv

### **11am - Project Coordination**

*As a group, identify and develop collaborative efforts related to objective goals.*

- Lincoln Document reminders
- Identify and develop collaborative projects that will advance sub-objectives
- Assess funding opportunities
  - What funding sources might be available?

**noon Closing:** Jerry Hogsette (Local Arrangements Chairs) Becky Trout Fryxell (Chair)

**lunch will be served**