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

# January 16-17, 2019

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Hilton Garden Inn

2550 Don Roser Drive

Las Cruces, New Mexico 88011

Tel: +1-575-522-0900

Ride Share / Carpooling information: <https://docs.google.com/spreadsheets/d/1SlVsgkcD6dbRHKoto5lKIGab3vPmBB61gnveuFrgSCc/edit?usp=sharing>

## For information about the meeting location, contact our Local Arrangements Chair: Brandon Smythe (bsmythe@nmsu.edu).

###### Agenda

Wednesday Session (0830-1700)

**Breakfast:** Check with the hotel staff for breakfast availability and time; Breakfast provided with registration.

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

**S-1060 Officer Reports:**

Alec Gerry (Past-Chair)

Erika Machtinger (Vice Chair)

Chris Geden (Secretary)

Brandon Smythe (2019 Local Arrangements Chair)

**Program Leader / Advisor Reports** *(if available):*

Herb Bolton (USDA-NIFA National Program Leader)

Dave White (S-1076 Administrative Advisor)

Objective Activities: *Participants will present a quick 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. A computer and projector will be available for those who would like to use it.*

1. **New technologies for management of biting and nuisance flies in organic and conventional systems *(Led by Watson)***
   1. Novel push-pull strategies (NE, NC, USDA-NE, USDA-FL)
   2. Evaluation of improved monitoring systems (USDA-NE, CA, TN, NM)
   3. Novel toxicants, biopesticides, and delivery systems (TX, USDA-FL, USDA-NE, FL, NE, PA, NM)
   4. Non-pesticide management options (mechanical) (FL, NC, NE, USDA-NE, USDA-FL, USDA-TX, PA, TN)
2. **Insecticide resistance detection and management *(Led by Scott/Kaufman)***
   1. Assessment of insecticide resistance (TX, NY, USDA)
   2. 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** ***(Led by Nayduch)***
   1. Identification of the key bacterial strains and their metabolites playing a major role in oviposition and larval development of stable flies (TX, KS, USDA)
   2. Investigation of the innate immune response of filth flies (KS, USDA)
   3. Consequences of fly-bacteria interactions: selection effects and evolutionary outcomes (USDA, TX)
   4. Animal and human pathogen acquisition, dispersal and deposition by muscid flies (NC, MA, KS)
4. **Characterize population biology of biting and nuisance flies** ***(Led by Taylor)***
   1. Characterize effects of climate and landscape features on dispersal (KS, TX, USDA NC)
   2. Phenological and environmental effects on biting and nuisance fly populations (FL, KS, TN, USDA)

**Dinner:** Dinner is on your own, but we may organize a group trip to a local eatery.

Thursday Morning Session (0800-1200)

**Breakfast:** Check with the hotel staff for breakfast availability and time; Breakfast provided with registration.

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

**0845:** Local Arrangements - Brandon Smythe

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

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

**1000 *-* Business Meeting:**

* Selection of 2020 meeting location.
* New business

**11am - Project Coordination (*~ 20minutes per objective*)**

*As a group, identify and develop collaborative efforts related to their objective goals. We ask each objective group to discuss the following:*

1. Determine objective priorities for 2019-2020
   * Do these align with expected outcomes and milestones from multistate proposal?
   * What outputs are anticipated?
2. Identify collaborative projects that will advance subobjectives
   * Are the best partners participating?
   * Who should we ask to join the multistate project?
3. Develop collaborative framework
   * What will be the role of each project participant?
   * Identify a participant to serve as project organizer
     + May serve as proposal development chair
   * Develop a timeline for the project (if funding is available)
4. Assess funding opportunities
   * What funding sources might be available?
   * Who should serve as lead PI on funding proposal?
   * Can funds be acquired to also support Objective 5 (engagement) as part of funding for this project?

**1300- Closing**

Brandon Smythe (Local Arrangements Chairs)

Becky Trout Fryxell (Chair)

**Adjourn the Meeting**

***After meeting:*** Optional site visit to the New Mexico State University Veterinary Entomology Research Laboratory. If interested please, visit with Brandon Smythe to coordinate.