**Project or Activity Designation and Number:** S-1068

**Project or Activity Title:** Integrated Pest Management of Pecan Arthropod Pests in the Southern U.S.

**Administrative Advisor(s):** Henry Fadamiro, Auburn University, Auburn, AL

**Period Covered:** March 2, 2020 – March 12, 2021

**Annual Meeting Dates:** March 12, 2021 (virtual meeting)

**Participants:**

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**Project or Activity Leadership:** Chair – Angelita Acebes-Doria (UGA); vice-chair – vacant; secretary – Ted Cottrell (USDA).

**Brief Summary of minutes of annual meeting:**

The 2021 annual meeting of the S-1068 ‘Integrated Pest Management of Pecan Arthropod Pests in the Southern U.S.’ was held virtually on March 12, 2021.

Leadership for the project was addressed. Due to the vacant vice-chair position, the project participants agreed that T. Cottrell (USDA) will move into the Chair position for the next year, C. Graham (Noble Foundation) will become the vice-chair and Andrew Sawyer (Univ. of GA) will become the secretary.

The site for the 2022 meeting, if held in person, will be in Las Cruces, NM and will be held in conjunction with the Annual Meeting of the Western Pecan Growers Association, March 6-8, 2022.

Reports by participants were provided for the different project objectives in a round table format allowing all participants an opportunity to present research results and/or pecan-related issues. Time was allotted for participants to ask questions of presenters. Presented information is included in the “Accomplishments and Impacts” section.

A healthy discussion was had concerning the project re-write that is due during this calendar year. Potential objectives were discussed. The project leadership will produce a draft of the new project and provide to the project participants for comment and input leading to a final draft.

Dwindling numbers of entomology participants from the different states was discussed. It was considered that the project may broaden its focus to include other disciplines. The role of plant pathologists studying *Xylella* in pecan and the important role of insect vectors of this serious disease could be a natural fit for this project. No final conclusions for inclusion of pecan researchers/extension personnel from other scientific disciplines were made.

**Accomplishments and Impacts:**

Research during the prior year saw several experiments against a wide range of serious pecan pests. These projects concerned: a sprayable pheromone for hickory shuckworm mating disruption (Cottrell, USDA); Grandevo biological insecticide for pecan aphids/pecan weevil (Shapiro-Ilan, USDA), establishing endophytic *Beauveria bassiana* and *Metarhizium brunneum* in pecan seedlings/trees for pest control (Shapiro-Ilan, USDA), using the *Cydia pomonella* granulosis virus against the hickory shuckworm (Shapiro-Ilan, USDA), survey, sampling and results of management trials for ambrosia beetles in GA (Acebes-Doria, UGA), current research on brown marmorated stink bug (Acebes-Doria, UGA), current research on pecan aphid control using commercially available products (Acebes-Doria, UGA), potential to use insecticidal netting on trunks to control pecan weevil (Acebes-Doria, UGA/Cottrell, USDA), impact of pecan hedging on arthropod pests of pecan (Acebes-Doria, UGA), progress developing web-based apps for pecan (Acebes-Doria, UGA), update on the status of the PecanIPMpipe (Laforest, UGA), Noble Foundation will retain pecan research activities with an emphasis on regenerative agriculture (Graham, Nobel Foundation), bud moth efficacy trials (Sawyer, UGA).

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**Date Submitted:** March 18, 2021